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DETERMINATION OF THE CHRONIC MAMMALIAN  
TOXICOLOGICAL EFFECTS OF TNT

(Twenty-four Month Chronic Toxicity/Carcinogenicity  
Study of Trinitrotoluene (TNT)  
In the Fischer 344 Rat)

FINAL REPORT--PHASE III  
VOLUME I

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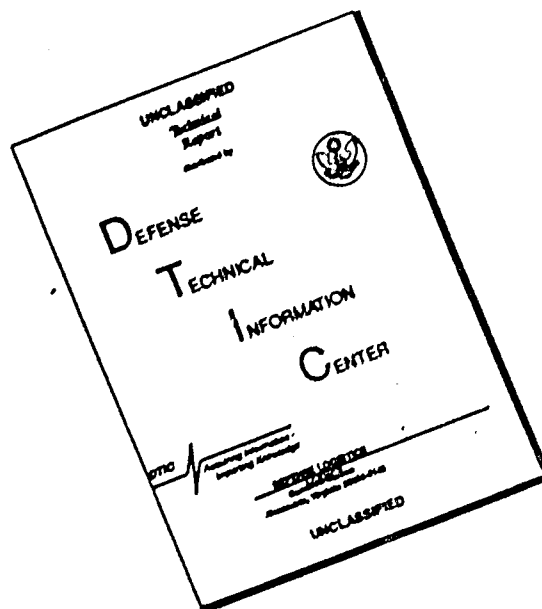
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<p>This study was conducted to evaluate the toxicity of the munitions compound 2,4,6-trinitrotoluene (TNT; Cas Reg. No. 118-96-7) in Fischer 344 rats when administered in their diet for up to 24 months. Groups of 75 rats per sex received TNT at doses of 0, 0.4, 2, 10, or 50 mg/kg/day. Ten rats/sex/dose were sacrificed following 6 and 12 months on test with surviving animals sacrificed after 24 months of treatment. Toxicologic endpoints included clinical signs, body weights, food consumption, hematology, clinical chemistry, ophthalmology, organ weights, and gross and tissue morphology.</p> <p>The major toxic effects observed during the administration of TNT to F344 rats for up to 24 months included anemia with secondary splenic lesions, hepatotoxicity, and urogenital lesions. In addition, hyperplastic/neoplastic lesions of the liver, kidneys and urinary bladder were observed. Based on the observance of splenic congestion, increased amounts of pigment deposition in the kidneys and bone marrow fibrosis at doses of 2.0 mg/kg/day or greater, the no-effect level under the conditions of the present study is 0.4 mg/kg/day.</p>					
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DETERMINATION OF THE CHRONIC MAMMALIAN TOXICOLOGICAL EFFECTS OF TNT  
TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY  
OF TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT

FINAL REPORT

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## EXECUTIVE SUMMARY

This study was conducted to evaluate the toxicity of the munitions compound trinitrotoluene (TNT); CAS Reg. No. 118-96-7) in Fischer 344 rats when administered in their diet for up to 24 months. Groups of 75 rats per sex received TNT at doses of 0, 0.4, 2, 10, or 50 mg/kg/day. Ten rats/sex/dose were sacrificed following 6 and 12 months on test with surviving animals sacrificed after 24 months of treatment. Toxicologic endpoints included clinical signs, body weights, food consumption, hematology, clinical chemistry, ophthalmology, organ weights, and gross and tissue morphology.

The chronic administration of TNT to male and female F344 rats at doses up to 50 mg/kg/day did not alter survival rates of these animals. Clinically, reductions in food consumption and corresponding decreases in body weight gain were seen for males and females given 10 or 50 mg/kg/day. No other clinical signs of toxicity were apparent except for a greater frequency of ocular discharge for high dose animals than for corresponding control animals. Ophthalmic examinations and histologic evaluation, however, failed to detect treatment-related ocular abnormalities.

Anemia consisting of reduced hematocrit, hemoglobin and RBC's was seen for males and females receiving 10 or 50 mg/kg/day with male rats appearing to be more sensitive than females. Increased production of reticulocytes was seen as a compensatory response to the anemic state. Bone marrow appeared fibrotic for females but not males and splenic lesions consisting of sinusoidal congestion, extramedullary hematopoiesis, and increased quantities of a hemosiderin-like pigment were seen. Thus, TNT appears to induce anemia by a hemolytic process. This is further supported by the observance of Howell-Jolly and Heinz bodies and the presence of methemoglobin in the circulating blood, all of which suggest the oxidizing nature of TNT and/or its metabolites.

Liver injury, primarily at 50 and to a lesser extent at 10 mg/kg/day, was indicated by several observations. Increased liver size was seen at these doses, with hepatocellular hyperplasia observed for males but not females during the second year of the study. Hepatotoxicity was also suggested by altered lipid and protein metabolism as evidenced by increased serum cholesterol, triglyceride levels and increased serum albumin levels. Additionally, alkaline phosphatase activity was altered for TNT-treated animals.

The observation of carcinoma of the urinary bladder suggests that TNT is a carcinogen to F344 rats under the conditions of the present study. Hepatocellular, renal and urinary bladder hyperplasia support this concept. These hyperplastic/neoplastic lesions were seen at doses of 10 mg/kg/day or greater. Additional toxic effects of TNT seen primarily at 50 mg/kg/day included increased numbers of circulating platelets, elevated blood calcium, and increased heart weights. Tissue morphology studies did not support these observations.

In summary, the major toxic effects observed during the administration of TNT to F344 rats for up to 24 months included anemia with secondary splenic lesions, hepatotoxicity, and urogenital lesions. In addition, hyperplastic and/or neoplastic lesions of the liver, kidneys and urinary bladder were observed. Based on the observance of splenic congestion, increased amounts of pigment deposition in the kidneys, and bone marrow fibrosis at doses of 2.0 mg/kg/day or greater, the no-effect level under the conditions of the present study is 0.4 mg/kg/day.

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## FOREWORD

The U.S. Army Medical Bioengineering Research and Development Laboratory (USAMBRDL), Fort Detrick, Frederick, MD, has been conducting a research program since 1973 for the purpose of developing the scientific data base necessary for recommending water quality criteria for compounds unique to the munitions industry. A water quality criterion (as defined by the amended Clean Water Act, 1977) is a qualitative or quantitative estimate of the concentration of a pollutant in ambient waters that, when not exceeded, will ensure a water quality sufficient to protect a specified water use. The criterion is a scientific entity based solely on data and scientific judgement. It does not reflect considerations of economic or technological feasibility. Currently, a water quality criterion consists of two separate numerical limits, one for the protection of human health and the other for the protection of aquatic organisms. These numbers, when translated by the appropriate regulatory agency, can be the basis of enforceable discharge or effluent limitations in a point source discharge permit issued under the Clean Water Act.

Since a water quality criterion is to protect designated water uses, a diverse, multidisciplinary research program was developed by USAMBRDL that includes "effects" studies on laboratory and domestic animals, wildlife species, aquatic organisms, plants, and economically important crops. In addition, extensive chemical and biological fate and persistence tests are conducted to provide information on the behavior of a pollutant in the aqueous environment. These kinds of data are especially useful for making site-specific translation of criteria into enforceable discharge limits.

This report represents a portion of the mammalian toxicology data base being developed by USAMBRDL on trinitrotoluene.

Animal Experimentation: In conducting the research described in this report, the investigator(s) adhered to the "Guide for the Care and Use of Laboratory Animals," prepared by the Committee on Care and Use of Laboratory Animals of the Institute of Laboratory Animal Resources, National Research Council (DHEW Publication No. (NIH) 78-23, Revised 1978).

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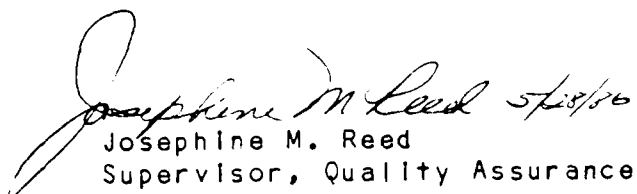
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This report was prepared at IIT Research Institute, 10 West 35th Street, Chicago, Illinois, 60616, under U.S. Department of Army Contract No. DAMD17-79-C-9120 (IITRI Project No. L06116) entitled "Determination of the Chronic Mammalian Toxicological Effects of TNT". Mr. Jesse J. Barkley, Jr., Environmental Protection Research Division, USAMBRDL, served as the Contracting Officer's Technical Representative for this program.

The work reported herein was conducted in the Toxicology and Pharmacology Section of the Life Sciences Department and represents a portion of the overall effort of the above named research program. Paul M. Lish, Ph.D., Scientific Advisor, served as Principal Investigator. Barry S. Levine, D.Sc., Senior Toxicologist, and Eva M. Furedi-Machacek, DVM, served as consecutive study directors and were responsible for the overall conduct of the study and for final report generation. Dr. Furedi-Machacek also served as study toxicologist and was responsible for the supervision of the technical support personnel. John M. Burns, DVM, Senior Veterinary Pathologist, Bobby R. Collins, DVM, M.S., and Vladislava S. Rac, DVM, M.S., were consecutively responsible for supervision of gross necropsies. Carol A. Thompson, DVM, M.S., tabulated the gross necropsy data. Drs. Burns and Levine served as consecutive heads of the the clinical pathology laboratory, and Don Reitman, Samuel Terese, B.S., (ASCP-MT), and Debbie L. Sava, B.S., (ASCP-MT), were responsible for generation of clinical pathology data. Donovan E. Gordon, DVM, Ph.D., Consultant, Veterinary Pathology, was responsible for tabulation and evaluation of histopathology data. Bobby R. Collins, DVM, M.S., and Joseph B. Harder, DVM, served as clinical veterinarians and supervised animal care personnel. Joann M. Hinz, B.S., and Robert M. Renaud, B.S., were responsible for the collection of test data. Dorothy Davis, (ASCP-HT), was responsible for preparation of histology slides. C. Susan West, DVM, performed the ophthalmic examinations. Josephine M. Reed, M.M., M.S., Supervisor, Quality Assurance, was responsible for the quality assurance program. Robert Remaly, B.S., Senior Engineer, was responsible for preparation of the test article premixes. Hugh J. O'Neill, Ph.D., Manager, Analytical Chemistry and Walter C. Eisenberg, Ph.D., Senior Chemist, were responsible for chemical analyses of test articles, test article premixes and test diets. Jean Graf provided the particle size analyses. Kirit Parikh B.S., was responsible for the Quality Assurance program of chemical analyses. Robert Gibbons, Ph.D., provided statistical and computational assistance.

## QUALITY ASSURANCE STATEMENT

Biological laboratory inspections were performed on April 3, May 28, June 16, July 7, August 4 and 13, September 1 and 29 and November 11, 1981; January 18 and 26, February 10, March 11, April 15, June 2, July 8, August 12 and 24, September 2 and November 10, 1982; January 26, March 1, 2, and 17, May 19, July 29 and August 2, 1983; and February 8, April 6 and October 4, 1984. Data audits were performed between January 26, August 2, November 29 to December 1 and December 6 to 8, 1982; January 18 and March 17, 1983; and January 23 to March 8, March 14 to 29, May 16, and June 7 to July 10, 1984. The final draft report was audited between April 14 and 22, 1986. Inspections and audits were performed by Josephine Reed, Julie McPhillips, and Kirit Parikh. The study was found to meet Life Sciences Quality Assurance criteria. Specimens and raw data generated during the study will be retained in the IITRI Life Sciences Archives as specified in standard operating procedures.

  
Josephine M. Reed  
Supervisor, Quality Assurance

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## 1. INTRODUCTION

The U.S. Army Medical Research and Development Command (USAMRDC) has been directed to evaluate the potential hazards to living systems of wastewater discharges from munitions facilities. Of primary concern are the toxicologic effects to mammalian systems of trinitrotoluene (TNT; CAS Reg. No. 118-96-7). This high explosive is routinely used in filling shells and bombs. Washdown waters resulting from the loading of this explosive into shells are discharged into the environment without significant treatment and are subject to limitations imposed by governmental regulatory agencies. Evaluation of the potential hazards of these wastewaters to human health is, therefore, a necessary portion of the data-base required to establish comprehensive environmental criteria.

The present study was conducted to aid in this evaluation by assessing the chronic toxicity and potential carcinogenicity of TNT in Fischer 344 rats when administered in the diet for at least 104 weeks. Information ultimately derived from this comprehensive long-term toxicology study will aid USAMRDC in developing criteria for the establishment of effluent standards and in defining levels of treatment for the Army's pollution abatement program.

The study reported herein was conducted in accordance with the IITRI Quality Assurance Program designed to comply with FDA Good Laboratory Practice Regulations (1). Thus, all terms used in this report, e.g. test article, raw data, specimens, etc., are in agreement with the definitions set forth in the aforementioned document.

## 11. MATERIALS AND METHODS

### A. Test Article

One hundred pounds of trinitrotoluene (TNT; CAS Reg. No. 118-96-7), Batch No. VOL 11-011, was made available for this study from stocks at the IITRI Kingsbury Ordnance Plant (KOP) Explosive Facility, La Porte, IN. The test article was stored at the facility in the dark and at ambient room temperature and relative humidity. Upon initiation and at termination of the treatment phase of the study, 30 g samples were taken and stored under conditions similar to those for Batch No. VOL 11-011.



The purity of the test article was determined by high performance liquid chromatography, as described in Appendix IA (p. 116), with analytical standards provided by the Sponsor. TNT purity was analyzed twice during this study and the results were as follows: May 1982 ( $99.43 \pm 2.89\%$ ) and March 1983 ( $99.05 \pm 4.11\%$ ).

Particle size analyses were done in November 1979 and November 1981 by the Fine Particles Research Section of the Chemistry and Chemical Engineering Department of IIT Research Institute. The results were as follows:

<u>Date</u> <u>Size (um)</u>	<u>November 1979</u>			<u>November 1981</u>		
	<u>Number</u>	<u>%</u>	<u>Cummul. %</u>	<u>Number</u>	<u>%</u>	<u>Cummul. %</u>
<22	187	38.4	38.4	68	13.6	13.6
22-44	101	20.2	58.6	143	28.7	42.3
44-66	69	14.2	72.8	87	17.4	59.7
66-110	57	11.7	84.5	86	17.2	76.9
110-220	44	9.0	93.5	73	14.6	91.5
220-330	18	3.7	97.2	20	4.0	95.5
330-440	9	1.9	99.1	14	2.8	98.3
>440	2	0.4	99.4	8	1.6	99.9

#### B. Test Diets

Premixes for the test article, approximately 10% in Purina Certified Rodent Chow No. 5002 (Ralston Purina Co., St. Louis, MO.), hereafter referred to as 5002, were prepared on a monthly basis in 4 kg quantities at the KOP by IITRI Chemistry Department personnel. The 10% premixes and test diets were stored at approximately 4°C. Undiluted TNT was handled in accordance with procedures for explosive and fire hazards. The test article was ball milled with equal parts of 5002 without presifting and subsequently diluted with additional 5002 in a twin shell blender to yield approximate 10% premixes. On and following Test Week 72, the diets that were analyzed as described below were prepared from premixes for which the 5002 was passed through a No. 45 sieve (355 um) before ball milling with TNT. Procedures were changed because homogeneity tests of some TNT diets prepared for this study and for a parallel study with mice (IITRI L06116 Study No. 11) showed large relative standard deviation.

Each TNT premix was tested for accuracy, homogeneity, potency and recovery of the test article. Homogeneity testing consisted of analyzing for test article concentration in each batch of premix samples taken from six random container locations. Premix stability was established for a period of

seven weeks and later for a period of nine weeks by conducting homogeneity tests at the initial and the terminal points of the 7, as previously reported (2) or 9 week period (see below). Recovery tests for the premix consisted of adding a known quantity of test article to an aliquot of the premix extract. The spiked sample subsequently underwent the identical analytical procedure as the actual premix. Toxicology Section personnel received the test article as approximate 10% premixes in 5002. These premixes posed little explosive or fire hazard as previously demonstrated (2). Results of premix analyses were as follows:

LOT NO.	DATE PREPARED	DATE ANALYZED	% TNT $\pm$ S.D.*
134-18	1-15-81	1-21-81	10.38 $\pm$ 0.24
134-19	2-13-81	3-02-81	9.89 $\pm$ 0.13
134-21	3-13-81	3-23-81	10.05 $\pm$ 0.27
134-22	4-16-81	4-30-81	10.20 $\pm$ 0.31
134-23	5-12-81	5-21-81	9.82 $\pm$ 0.25
162-1	6-15-81	6-25-81	9.86 $\pm$ 0.41
162-2	7-09-81	7-21-81	9.92 $\pm$ 0.56
162-3	8-13-81	8-25-81	9.20 $\pm$ 0.77
162-4	9-11-81	9-18-81	9.54 $\pm$ 0.58
162-5	10-19-81	10-23-81	9.94 $\pm$ 0.46
162-6	11-12-81	11-20-81	9.70 $\pm$ 0.25
162-7	12-18-81	12-22-81	9.68 $\pm$ 0.49
162-9	1-29-82	2-02-82	9.73 $\pm$ 0.50
162-10	2-12-82	2-22-82	9.51 $\pm$ 0.84
162-11	3-23-82	3-31-82	9.91 $\pm$ 0.27
162-12	4-26-82	5-06-82	9.99 $\pm$ 0.11
162-17	6-02-82	6-07-82	9.88 $\pm$ 0.23
162-17**	6-02-82	8-18-82	9.47 $\pm$ 0.43
162-19	7-13-82	7-19-82	9.04 $\pm$ 0.33
162-20	8-16-82	8-19-82	9.58 $\pm$ 0.29
162-21	9-10-82	9-16-82	9.87 $\pm$ 0.20
162-22	10-18-82	10-22-82	9.85 $\pm$ 0.56
162-23	11-22-82	12-01-82	9.74 $\pm$ 0.68
162-24	12-20-82	12-30-82	9.93 $\pm$ 0.21
162-25	1-20-83	1-25-83	9.78 $\pm$ 0.37
216-01	2-24-83	3-01-83	9.84 $\pm$ 0.37
216-03	3-23-83	4-01-83	9.52 $\pm$ 0.18
216-04	5-03-83	5-09-83	9.49 $\pm$ 0.25

\* Six sampling locations

\*\* Stability Study

Following chemical analysis of the premixes to determine test article concentration and homogeneity (Appendix IB and ID), sufficient quantities were diluted with 5002 meal in a twin shell blender by toxicology personnel to achieve the concentrations of the test article necessary to administer the required dose levels on a mg/kg/day basis. The last two periods' body weight and food consumption measurements for each test group, by sex, were used to calculate the projected weight gain and food consumption and afterward, the desired dietary concentrations of the test article for the following period. Twenty, and later, 16 kg of each test diet (in two batches) were prepared on an approximate weekly basis. Unused portions of 10% premixes were returned to KOP for disposal in accordance with instructions for safe disposal of explosives. Surplus and uneaten portions of test diets were incinerated.

Twenty-eight test diets (2 diets/sampling week) used in Test Weeks 1, 12, 28, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 95, 101 and 104 were analyzed for concentration and homogeneity (Appendix IC and Appendix ID). In addition, one control and two test diets were monitored for stability under animal cage conditions for one week. First, they were sampled the day they were placed in the animals' cages and again one week later from the uneaten portion of the diet. Recovery studies of test diets consisted of adding a known quantity of test article (spiking) to a weighed quantity of untreated 5002 in a measured volume of acetonitrile (the solvent used in the extraction procedure). The spiked samples subsequently underwent the identical analysis as the actual diet samples and the percentage of recovery was calculated.

One sample of 5002, lot March 24 822G, was analyzed during the course of the study by Trace Elements, Inc., Park Ridge, IL (TEI) for those contaminants listed in the 5002 certification profile shown in Appendix II. The analytical results are also shown in Appendix II except for the chlortetracycline levels shown in Appendix VII. The references to the procedures used by TEI are in Appendix III. On the basis of the analytical results for chlortetracycline content, aliquots from this and three additional reserve samples of 5002 were sent to TEI for analysis. In addition, aliquots from these four reserve samples were sent to Scientific Associates, Inc., St. Louis, MO, Woodson-Tenent Laboratories, Inc., Memphis, TN, and Harris Laboratories, Inc., Lincoln, NE for chlortetracycline analysis. Samples of each 5002 lot used in the study were also analyzed for nitrate, nitrite and mercury content by TEI.

### C. Test Animals

Fischer 344 rats, obtained from Harlan Sprague-Dawley, Madison, WI, were used for this study. Four hundred and twenty-six males and four hundred twenty-nine females were received in good condition on February 12, 1981. They were 3 to 4 weeks old upon arrival, and random body weights (mean  $\pm$  SD) recorded within three days of receipt were  $46 \pm 12$  g for males and  $44 \pm 11$  g for females.

The shipment was housed in two quarantine rooms, one for each sex. The animal room conditions during quarantine, pretest and test periods were as follows: 20-24°C, ambient relative humidity (30-70%), and 12 hour light/12 hour dark cycle. There were no other test animals in the rooms. The animals were housed three per polycarbonate cage (16.5" x 8" x 8") with Ab-sorb-dri bedding (Ab-sorb-dri Inc., Rochelle Park, NJ) from arrival until their termination. Animals were transferred to clean cages twice weekly. Each animal was identified during the quarantine period by a combination of cage number and ear punch. Test animal selection was done at the onset of Test Week -2 (2 weeks prior to initiation of treatment). Animals placed on test were identified by an ear tag bearing a study-unique test animal number (N = 750) which was included with necropsy specimens. This number appeared on the cage card that also contained the study number, dose level and sex. In addition the cage cards were color coded as to the dose level and sex.

Upon arrival at the IITRI animal facility, the animals were held in quarantine for 12 days. During this period, they were observed for signs of disease, general unthriftiness, poor coat, discharges from body openings, abnormal feces, etc. Any animals found to be unhealthy were eliminated from the test animal selection process. At the end of the quarantine period, five animals of each sex were sacrificed and extensive gross necropsies were performed under the supervision of the pathologist. Blood samples were collected for measurements of hematology and clinical chemistry parameters (see Section II.D). Results of pretreatment health screen were within limits for the rats of this strain and age. Microbiological examination of the digestive and respiratory system for pathogens, molds, yeasts, parasites and *Mycoplasma pulmonis* was also performed for the above rats with negative results. Serum antibody titer was determined for the following diseases: GD-VII, H-1, Kilham Rat Virus, Adenovirus, Sendai Virus, Rat Coronavirus-Sialodacryadenitis, Reovirus 3, Pneumonia Virus of Mice (PVM) and Lymphocytic Choriomeningitis (LCM). These antibody titers were negative as measured by Microbiological Associates, Bethesda, MD.

Animals received 5002 rodent chow meal from arrival until their termination, except during a 17 to 19 hour fast prior to blood collection and/or scheduled sacrifice. The food was available from powdered diet feeders (Model HB-69B, Hoeltge, Inc. Cincinnati, OH). Tap water was available ad libitum from glass or plastic bottles. Bimonthly analytical results of drinking water of the City of Chicago were included in the monthly or bimonthly technical reports and a sample is shown in Appendix IX.

#### D. Experimental Design

Following the quarantine period, test-eligible animals were assigned to five treatment groups for each sex by a stratified randomization procedure (blocked by body weight). Following assignment to treatment groups, all animals were randomly assigned test animal numbers as shown below. The animal cages were assigned permanent randomized locations on racks without regard to dose level or sex. Mean body weight values at randomization were  $60 \pm 14$  g for males and  $55 \pm 13$  g for females. This procedure was performed at the onset of Test Week -2. The animals were approximately 6-7 weeks old upon initiation of treatment and body weight ranges recorded during Test Week -1 (the most recent data prior to initiation of treatment) were 53-168 g for males and 73-128 g for females. The first day of exposure to the test article was March 11, 1981. Dietary administration continued until week 106 of study, March 1983.

#### Treatment Group Allocation:

Treatment Group	Treatment	Animals per Sex	Dose Level (mg/kg/day)	Test Animal No. (males)	Test Animal No. (females)
I.	-	75	0.0	1-75	76-150
II.	TNT	75	0.4	151-225	226-300
III.	TNT	75	2.0	301-375	376-450
IV.	TNT	75	10.0	451-525	526-600
V.	TNT	75	50.0	601-675	675-750

The dose levels for this study were selected on the basis of results of the "Thirteen Week Oral (Diet) Toxicity Study of Trinitrotoluene (TNT), Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and TNT/RDX Mixtures in the Fischer 344 Rat" performed by IITRI under Contract Nos. DAMD17-79-C-9120 and DAMD17-79-C-9161 reported November 1981.

The appropriate test diets were available to the test animals ad libitum from Test Day 1 until their termination, except during a 17 to 19 hour fast prior to either blood collection in Test Weeks 14, 26, 52, 78 and 104 or scheduled sacrifice in Test Weeks 27, 53 and 105-106. Thus, all animals received the appropriate test diet until approximately one day prior to their scheduled sacrifice. Weekly test diets were prepared for each treatment group, by sex, on the basis of the projected body weight and food consumption data.

Commencing with Test Week -1 until their termination, all animals were observed once daily in the morning for any pharmacologic and/or toxicologic signs. Afternoon mortality checks were initiated on Test Day 1. The presence or absence of red bedding in animals's cages was recorded weekly from Test Week 1 until termination. Physical examinations, which included palpations for masses, were conducted weekly from Test Week -1 until Test Week 13 and then biweekly until Test Week 104. Food consumption was measured weekly for each cage of test animals commencing with Test Week -2 through Test Week 13 and biweekly until Test Week 104. Mean daily food consumption per animal was calculated from these data. Body weight values were recorded weekly starting in Test Week -2 until Test Week 13, and biweekly thereafter until termination.

All surviving animals were subjected to ophthalmic examinations during Test Weeks -2, 25, 51, 76 and 103. The examination consisted of indirect ophthalmoscopy and biomicroscopy. Only animals found to be free of clinically apparent lesions in the pretest examination were used in the study.

Serial blood collections were performed on the same randomly selected 10 animals/sex/dose level during Test Weeks 14, 26, 52, 78 and 104 for measurements of clinical chemistry and hematology parameters. If an animal died prior to its scheduled blood collection, it was replaced by another randomly selected rat of the same sex and dose level. Approximately 1.5-2.0 ml of blood was collected from each animal via the orbital sinus. The samples were collected over a 3 consecutive day period and analyzed in a randomized order.

The following parameters were measured:

Hematology:

Hematocrit (Hct)  
Hemoglobin (Hgb)  
Mean Corpuscular Volume (MCV)  
Mean Corpuscular Hemoglobin (MCH)  
Mean Corpuscular Hemoglobin Concentration (MCHC)

Methemoglobin (METHGB)  
Erythrocyte count (RBCs)  
Platelet count (PLT)  
Leukocyte count, total (WBC) and differential  
Reticulocyte count (RETIC)  
RBCs with Howell-Jolly bodies (qualitative) (HOWJOL)  
RBCs with Heinz bodies (qualitative)

Clinical chemistry:

Glucose (GLU)  
Blood urea nitrogen (BUN)  
Serum glutamic-pyruvic transaminase (SGPT)  
Bilirubin, total (T-BIL) and direct (D-BIL)  
Lactic dehydrogenase (LDH)  
Creatine phosphokinase (CPK)  
Alkaline phosphatase (A PHOS)  
Triglycerides (TRIG)  
Total cholesterol (CHOL)  
Total protein (T PRO)  
Albumin (ALB)  
Globulin (calculated value) (GLOB)  
A/G ratio (calculated value)  
Sodium (NA)  
Potassium (K)  
Chloride (Cl)  
Calcium (CA)

Methods used to measure the above parameters are listed in Appendix IV (hematology) and Appendix V (clinical chemistry).

All animals which were sacrificed in a moribund state or died on test were necropsied regardless of autolytic state. Ten randomly selected animals/sex/dose level, after exclusion of animals designated for serial blood collection, were sacrificed during Test Weeks 27 and 53. Three hundred seventy-five surviving test animals were sacrificed and necropsied in random order during Test Weeks 105 and 106. Terminal body weights were recorded immediately prior to sacrifice following a 17 to 19 hour fast. Euthanasia was accomplished with carbon dioxide anesthesia followed by exsanguination from the abdominal aorta. The necropsy procedure was a thorough and systematic examination of the animal viscera and carcass with collection and fixation of the following tissues:

- \*Adrenals
- Bone marrow smear
- \*Brain
- Cecum

- Colon
- Costochondral junction, rib
- Duodenum
- Epiddymes
- Esophagus
- Eyes and optic nerves
- Gross lesions
- \*Heart
  - Ileum
  - Jejunum
- \*Kidneys
- Larynx
- \*Liver
  - Lungs and mainstem bronchi
  - Lymph nodes (mandibular and mesenteric)
  - Mammary gland
  - Muscle
  - Nasal turbinates
- \*Ovaries
- Pancreas
- Pituitary gland
- Prostate
- Rectum
- Salivary gland
- Sciatic nerve
- Seminal vesicles
- Skin, abdominal
- Spinal cord (cervical, thoracic, lumbar)
- \*Spleen
  - Sternum, including bone marrow
  - Stomach
- \*Testes
  - Thymus
  - Thyroids (parathyroids)
  - Tissue masses
  - Trachea
  - Urinary bladder
  - Uterus

\* These organs were weighed during the scheduled necropsies.  
 Testes were not weighed during scheduled terminal sacrifice  
 (Test Weeks 105-106).

All tissues, except eyes, testes and bone marrow smears, were fixed at a thickness not exceeding 0.5 cm in 10% neutral buffered formalin (NBF) that was changed 24 hours later. Eyes and testes were fixed in 3% aqueous glutaraldehyde and Bouin's Solution, respectively, for 24 hours. They were transferred to 50% ethanol for 24 hours, then placed in 70% ethanol. Bone marrow smears were prepared from the femur using the "Paint brush technique". They were air-dried and fixed in absolute

methanol. Lungs and urinary bladder were inflated with NBF prior to immersion in this fixative. The stomach was opened and flattened on paper prior to fixation. All tissues examined microscopically were cut at a thickness of 4 to 6 microns and stained with hematoxylin and eosin. Selected slides of kidneys and spleens were stained with Gomory stain for iron.

Tissues from all control animals and those receiving 50.0 mg/kg/day were subjected to comprehensive histopathologic examination, defined as microscopic examination of the following tissues and/or organs:

- Adrenals
- \*Brain (3 sections)
- Cecum
- Colon
- Duodenum
- Epididymes
- Esophagus
- Eyes and optic nerve
- Gonads
- Gross lesions
- Heart
- Ileum
- Jejunum
- Kidneys
- Liver
- Lungs and mainstem bronchi
- Mammary gland
- Mesenteric lymph node
- Pancreas
- Pituitary gland (collected after the six month interim sacrifice)
- Prostate
- Rectum
- Salivary gland
- Skin, abdominal
- Spinal cord (cervical, thoracic and lumbar)
- Spleen
- Sternum including bone marrow
- Stomach
- Tissue masses
- Thyroids (parathyroids)
- Tissue masses
- Trachea
- Uterus
- Urinary bladder

\*(1) frontal cortex and basal ganglia; (2) parietal cortex and thalamus; and (3) cerebellum and pons.

Tissues from all animals receiving 0.4, 2.0, and 10.0 mg/kg/day were subjected to limited histopathologic examination defined as microscopic examination of at least the following tissues and/or organs: Brain (section of frontal cortex and basal ganglia; section of parietal cortex and thalamus and section of cerebellum and pons) gonads, heart, liver, kidneys, spleen, spinal cord (cervical, thoracic and lumbar) pituitary gland (see above) and, in addition, for the females, urinary bladders and sternal bone marrow (only those dying or sacrificed after two months).

#### E. Statistical Analysis

Those variables that were repeatedly measured, e.g. body weight, food consumption, and clinical pathology parameters were statistically analyzed by a multivariate analysis of variance for repeated measurements model. Variables that were measured a single time, e.g. organ weights, were analyzed by both univariate and multivariate analysis of variance procedures. In the presence of significant ANOVA results, a series of post-hoc analyses were conducted. Individual between-group comparisons at each time-point were performed after Tukey's b test for multiple comparisons. Frequency data, such as incidence of mortality, gross necropsy observations and histopathologic lesions, were compared by log linear analysis techniques where appropriate. Time-to-death data were analyzed by the Kaplan-Meier and Cox regression analyses. Individual animal data can be found in Appendix VI.

### III. RESULTS

#### A. Test Diets

Weekly doses received by test animals, based on their body weight and food consumption, were very close to the intended dose levels. Mean dose calculations across time were within 98% of anticipated values for all treatment groups (Tables 1 and 2).

Analytically determined concentrations of TNT in test diets were found to be close to their intended concentrations. The homogeneity (relative standard deviation) of some of the tested diets was not satisfactory, mostly at the low concentrations and in the period between Test Weeks 36 and 54. When test diets were sampled one week after being placed in the animal room, a slight decrease in TNT concentration occurred (Table 3). The known volatility of TNT may have accounted for this change.

## B. Food and Water Contaminants

The analysis of a 5002 sample for those contaminants listed in the 5002 certification profile is shown in Appendix II. The results of repeated testing of 5002 samples for chlortetracycline content are contained in Appendix VII. The three reference laboratories that reanalyzed the 5002 samples following TEI, generally reported negligible quantities of chlortetracycline.

A sample from each 5002 lot was analyzed for nitrate, nitrite and mercury content. The results are shown in Appendix VIII. Analytical results obtained from a sample of Chicago water are contained in Appendix IX.

## C. Mortality/Clinical Observations

TNT did not induce lethality at the doses tested in this study, as mean survival times were similar among control and treatment groups. In addition, TNT-related clinical signs were not readily apparent. Only the frequency of ocular discharge during the second year of the study appeared to be greater for high dose males and females than for corresponding control animals. No other clinical observations were evident as a consequence of TNT exposure (Table 4).

## D. Body Weight

Dose-related reductions in body weight gain were observed for both male and female rats. Animals given 10 mg/kg/day showed an approximate 5-14% reduction at the termination of the two year treatment period. At the 50 mg/kg/day dose level, 30-33% decreases in body weight gain were seen, with females appearing to be slightly more sensitive. No effect on body weight was seen at either 0.4 or 2 mg/kg/day (Tables 5-8).

## E. Food Consumption

Dose-related decreases in food intake were apparent for both sexes throughout the study. This was mostly seen for rats at the 10 and 50 mg/kg/day dose levels. Sporadic increases and decreases in food consumption were observed at the other doses, but were not considered to be treatment-related (Tables 9 and 10).

## F. Hematology

Dose-related anemia (reductions in hematocrit, hemoglobin and RBC counts) was seen in TNT-treated rats. These changes were seen throughout the study for the male rat and during the

first year for female rats administered 50, and to a lesser extent, 10 mg/kg/day (Figures 1-2). Male rats appeared to be more affected than female rats. Compensatory responses to the anemic state were minimal, with marginal reticulocytosis occasionally seen at the highest dose administered. Macrocytosis was not observed. Additional erythrocytic effects of TNT included methemoglobinemia for males at 10 and 50 mg/kg/day (Figures 3-4) and the minimal occurrence of Howell-Jolly and Heinz Bodies at this latter dose level (Appendix VI, Tables 4a-4e).

The only other hematologic effect of TNT seen in this study was thrombocytosis for male and female rats administered 50 mg/kg/day primarily during the second year of the study (Test Weeks 52 and 78 but not 104). All other hematologic changes were random and not considered related to TNT treatment (Tables 11-20).

#### G. Clinical Chemistry

Serum lipids appeared to be affected by the administration of TNT. The highest dose given (50 mg/kg/day) increased serum cholesterol levels for males and females whereas lower doses (2 and 10 mg/kg/day) caused a dose-related elevation for males only (Figures 5-6). For serum triglycerides at Test Week 78, a dose-related trend for hypotriglyceridemia was seen, although not statistically significant, for female rats only. When rats were sampled during Test Week 104, statistically significant reductions in serum triglyceride levels were apparent for females at the 10 and 50 mg/kg/day doses and hypertriglyceridemia for male rats at the 50 mg/kg/day dose level. In addition, females at the 2 mg/kg/day appeared to have treatment-related hypotriglyceridemia (Figures 7-8).

Serum total protein, albumin and globulin levels were, in general, elevated for rats of both sexes administered 50 mg/kg/day. This was primarily observed for males during the first year and for females during the second year. The fractional increase for globulin was apparently greater than that occurring for albumin as the A/G ratio was reduced for these high dose animals (Figures 9-12).

Additional responses observed for high dose rats only included slightly increased BUN levels during the second year of the study, elevated serum potassium values at Test Weeks 14 and 26, and isolated instances of hyperbilirubinemia and hypercalcemia.

Dose-related reductions of serum alkaline phosphatase activity were seen for males but not females during the first sampling period (Test Week 14). This was not seen subsequently for animals of either sex. However, this enzyme was not measured after Test Week 52 as alkaline phosphatase levels for aging animals increase thus limiting the value of the parameter. With the exceptions noted above, all other changes in clinical chemistry parameters were random and not considered to be treatment-related (Tables 21-30).

#### H. Ophthalmology

The ophthalmology narrative report is contained in Appendix X (attached) and the complete report is in Volume II\*, Appendix Xa. All ophthalmologic abnormalities seen occurred in random fashion and were not considered to be treatment-related.

#### I. Organ Weights

Dose-related hepatomegaly and increased kidney weights were seen during all three sampling periods (Test Weeks 27, 53 and 105). These effects were observed for rats given 10 or 50 mg/kg/day, with only one instance of elevated relative renal weights at the 2 mg/kg/day dose level. Additional treatment-related alterations in organ weights included splenomegaly at Test Weeks 27 and 53 for both sexes administered 50 mg/kg/day. Increased relative heart weights were seen for females at Test Weeks 27 and 53 and for both sexes at Test Week 105 at 50 and 10 mg/kg/day. Relative testes weights were increased at both interim sacrifice periods (Tables 31-42).

#### J. Pathology

The Pathology Narrative Report appears in Appendix XI (attached) and the complete report is in Volume III\*, Appendix XIA. Histopathologic lesions following up to 12 months of TNT treatment were confined to the spleen and kidneys. Grossly enlarged darkened spleens were seen for rats at the 50 mg/kg/day dose level. At the microscopic level, increased extramedullary hematopoiesis, sinusoidal congestion, and/or increased amounts of a pigment resembling hemosiderin within sinusoidal macrophages were apparent for males and females

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\* Requests for Volumes II and III should be directed to Health Effects Research Division, U.S. Army Medical Bioengineering Research and Development Laboratory, Fort Detrick, Frederick, Maryland 21701-5012.

administered either 10 or 50 mg/kg/day. Renal damage, observed grossly at this latter dose as a brown mottled appearance, consisted of iron-negative cytoplasmic bodies and nuclear hypertrophy of cortical proximal convoluted tubular cells. These histologic changes were primarily seen at doses of 2 mg/kg/day or greater (Table 43).

Histopathologic lesions observed and dose levels affected for rats during the 12 to 24 month TNT treatment period included those described above. Liver injury occurring as hepatocellular hyperplasia for males but not females was also evident at 10 and 50 mg/kg/day. Bone marrow fibrosis, observed for female rats, was apparent at doses of 2 mg/kg/day or greater. In addition, the following treatment-related lesions were apparent or increased to a greater extent primarily for high dose animals: hyperplasia of the renal pelvic epithelium, inflammation with lymphocytic infiltration of renal tissue (chronic nephropathy), and for females only, urinary bladder hyperplasia, papilloma, and carcinoma (Tables 44-45).

#### IV. DISCUSSION

The chronic administration of TNT to male and female F344 rats at doses up to 50 mg/kg/day did not alter survival rates of these animals. Clinically, reductions in food consumption and corresponding decreases in body weight gain were seen for males and females given 10 or 50 mg/kg/day. No other clinical signs of toxicity were apparent except for a greater frequency of ocular discharge for high dose animals than for corresponding control animals. Ophthalmic examinations and histologic evaluation, however, failed to detect treatment-related ocular abnormalities.

Anemia consisting of reduced hematocrit, hemoglobin and RBC's was seen for males and females receiving 10 or 50 mg/kg/day with male rats appearing to be more sensitive than females. Reticulocytosis but not macrocytosis was seen as a compensatory response to the anemic state. Bone marrow appeared fibrotic for females but not males, and splenic lesions consisting of sinusoidal congestion, extramedullary hematopoiesis, and increased quantities of a hemosiderin-like pigment were seen. Thus, TNT appears to induce anemia by a hemolytic process. This is further supported by the observance of Howell-Jolly and Heinz bodies and methemoglobinemia, all of which suggest the oxidizing nature of TNT and/or its metabolites.

Liver injury, primarily at 50 and to a lesser extent at 10 mg/kg/day, was indicated by several observations. Hepatomegaly was seen at these doses, with hepatocellular

hyperplasia observed for males but not females during the second year of the study. Hepatotoxicity was also suggested by altered lipid and protein metabolism, as evidenced by hypercholesterolemia, hypotriglyceridemia (females only), and increased serum albumin levels. Additionally, alkaline phosphatase activity was altered for TNT-treated animals.

Blood urea nitrogen (BUN), and on occasion serum potassium levels, were slightly elevated for animals receiving 50 mg/kg/day of TNT. Renal injury was substantiated by organ weight analysis and gross and tissue morphology examinations. Kidney weights were elevated for animals of both sexes receiving 10 or 50 mg/kg/day. Brown mottled kidneys were seen at necropsy for high dose animals with iron-negative cytoplasmic bodies and nuclear hypertrophy of cortical proximal convoluted tubular cells observed microscopically at 2 mg/kg/day or greater. Additional toxic effects on the urogenital system, primarily seen for high dose rats, included hyperplasia of the renal pelvis, inflammation with lymphocytic infiltration of renal tissue, and for females only, urinary bladder hyperplasia/papilloma/carcinoma.

The observance of carcinoma of the urinary bladder suggests that TNT is a carcinogen to F344 rats under the conditions of the present study. Neoplastic lesions in the urinary bladder are very rare as reported by D. G. Goodman *et al.* (3). In a series of 1794 male and 1754 female F344 rat controls for 2 year chronic studies, six urinary bladder tumors were found and consisted of: transitional cell papilloma for one male (0.05%) and two females (0.11%); transitional cell carcinoma for two females (0.11%) and undifferentiated carcinoma for one male (0.05%). In addition to the above mentioned neoplasias, hepatocellular, renal and urinary bladder hyperplasia support this concept of carcinogenicity. These hyperplastic/neoplastic lesions were seen at doses of 10 mg/kg/day or greater.

Additional toxic effects of TNT seen primarily at 50 mg/kg/day included thrombocytosis, hypercalcemia, and increased heart weights. Tissue morphology studies did not support these observations.

In summary, the major toxic effects observed during the administration of TNT to F344 rats for up to 24 months included anemia with secondary splenic lesions, hepatotoxicity, and urogenital lesions. In addition, hyperplastic and/or neoplastic lesions of the liver, kidneys and urinary bladder were observed. Based on the observance of splenic congestion, increased amounts of pigment deposition in the kidneys and bone marrow fibrosis at doses of 2.0 mg/kg/day or greater, the no-effect level under the conditions of the present study is 0.4 mg/kg/day.

V. REFERENCES

1. Good Laboratory Practice Regulations. Fed Reg. 21 CFR Part 38. 60013-60020, 1978.
2. Levine, B.S., Furedi, E.M., Gordon, D.E., Burns, J.M., and Lish, P.M. Thirteen Week oral (diet) toxicity study of trinitrotoluene (TNT), hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and TNT/RDX mixtures in the Fischer 344 rat. Final Report No. L6116/L6121, Study No. 1.
3. Goodman, D.G., et al. Tox. Appl. Pharma. 48:237-244, 1979.

TABLES

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Table 1

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
1	0.397 ± 0.043 ( 75)	2.052 ± 0.215 ( 75)	9.421 ± 1.031 ( 75)	48.495 ± 5.033 ( 75)
2	0.341 ± 0.034 ( 75)	1.994 ± 0.203 ( 75)	10.189 ± 1.158 ( 75)	45.280 ± 3.883 ( 75)
3	0.384 ± 0.038 ( 75)	1.975 ± 0.151 ( 75)	10.502 ± 1.004 ( 75)	50.471 ± 3.931 ( 75)
4	0.347 ± 0.026 ( 75)	1.865 ± 0.129 ( 75)	8.450 ± 0.746 ( 75)	48.431 ± 3.581 ( 75)
5	0.401 ± 0.029 ( 75)	1.975 ± 0.141 ( 75)	10.348 ± 0.941 ( 75)	48.887 ± 3.285 ( 75)
6	0.376 ± 0.026 ( 75)	2.022 ± 0.148 ( 75)	9.897 ± 0.815 ( 75)	50.011 ± 3.398 ( 75)
7	0.346 ± 0.022 ( 75)	1.893 ± 0.121 ( 75)	9.443 ± 0.746 ( 72)	46.872 ± 3.073 ( 75)
8	0.393 ± 0.027 ( 75)	1.921 ± 0.126 ( 75)	10.084 ± 0.978 ( 75)	49.693 ± 3.275 ( 75)
9	0.443 ± 0.028 ( 75)	2.145 ± 0.130 ( 75)	11.143 ± 0.921 ( 75)	52.105 ± 3.421 ( 75)
10	0.438 ± 0.028 ( 75)	2.066 ± 0.135 ( 72)	9.627 ± 0.699 ( 72)	50.316 ± 3.212 ( 75)
11	0.359 ± 0.020 ( 75)	1.872 ± 0.121 ( 75)	9.676 ± 0.726 ( 75)	48.299 ± 3.841 ( 72)
12	0.385 ± 0.022 ( 75)	1.718 ± 0.138 ( 75)	9.223 ± 0.694 ( 75)	46.082 ± 2.922 ( 75)
13	0.379 ± 0.020 ( 75)	1.921 ± 0.107 ( 75)	9.895 ± 0.716 ( 75)	48.544 ± 3.083 ( 75)
15	0.419 ± 0.023 ( 75)	2.099 ± 0.126 ( 75)	10.213 ± 0.698 ( 75)	50.633 ± 3.321 ( 75)
17	0.399 ± 0.024 ( 75)	1.926 ± 0.106 ( 75)	9.721 ± 0.759 ( 75)	48.300 ± 4.986 ( 75)

Table 1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
19	0.388 ± 0.021 ( 75)	1.986 ± 0.106 ( 75)	9.724 ± 0.667 ( 75)	49.506 ± 3.555 ( 75)
21	0.382 ± 0.020 ( 75)	1.997 ± 0.102 ( 75)	10.192 ± 0.689 ( 75)	50.266 ± 2.953 ( 75)
23	0.426 ± 0.029 ( 75)	2.038 ± 0.108 ( 74)	10.402 ± 0.733 ( 75)	53.055 ± 3.702 ( 75)
25	0.364 ± 0.020 ( 74)	1.898 ± 0.120 ( 75)	9.277 ± 0.673 ( 75)	45.827 ± 2.646 ( 75)
27	0.405 ± 0.022 ( 68)	2.052 ± 0.164 ( 68)	10.288 ± 0.707 ( 68)	50.747 ± 3.052 ( 68)
29	0.401 ± 0.034 ( 65)	2.034 ± 0.126 ( 65)	9.943 ± 0.762 ( 65)	51.536 ± 3.363 ( 65)
31	0.401 ± 0.026 ( 65)	1.982 ± 0.108 ( 65)	10.324 ± 0.695 ( 65)	50.809 ± 3.270 ( 65)
33	0.407 ± 0.030 ( 65)	1.979 ± 0.123 ( 65)	9.665 ± 0.706 ( 65)	49.879 ± 3.439 ( 65)
35	0.399 ± 0.024 ( 65)	1.979 ± 0.116 ( 65)	10.033 ± 0.656 ( 65)	49.607 ± 3.564 ( 65)
37	0.395 ± 0.023 ( 65)	2.022 ± 0.212 ( 65)	9.808 ± 0.828 ( 65)	50.443 ± 3.252 ( 65)
39	0.398 ± 0.025 ( 65)	2.015 ± 0.133 ( 65)	10.281 ± 0.790 ( 65)	49.824 ± 3.420 ( 65)
41	0.395 ± 0.028 ( 65)	1.995 ± 0.179 ( 65)	9.665 ± 0.654 ( 65)	49.356 ± 3.437 ( 65)
43	0.380 ± 0.023 ( 65)	1.846 ± 0.128 ( 65)	9.841 ± 0.666 ( 65)	50.351 ± 3.438 ( 65)
45	0.375 ± 0.052 ( 65)	2.088 ± 0.278 ( 62)	9.036 ± 1.824 ( 65)	47.636 ± 5.764 ( 59)
47	0.463 ± 0.050 ( 65)	1.946 ± 0.157 ( 64)	12.220 ± 1.169 ( 65)	56.044 ± 7.454 ( 65)

Table 1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
49	0.366 ± 0.021 ( 64)	1.917 ± 0.138 ( 64)	8.426 ± 0.626 ( 65)	45.419 ± 3.194 ( 65)
51	0.429 ± 0.035 ( 64)	2.097 ± 0.174 ( 64)	11.095 ± 0.757 ( 65)	51.726 ± 3.570 ( 65)
53	0.395 ± 0.024 ( 57)	2.051 ± 0.130 ( 57)	9.895 ± 0.671 ( 58)	51.104 ± 3.623 ( 58)
55	0.402 ± 0.025 ( 54)	2.000 ± 0.167 ( 54)	9.867 ± 0.602 ( 54)	49.647 ± 4.338 ( 55)
57	0.386 ± 0.044 ( 54)	1.897 ± 0.184 ( 53)	9.831 ± 0.801 ( 54)	49.428 ± 4.001 ( 55)
59	0.374 ± 0.024 ( 54)	1.958 ± 0.137 ( 54)	9.707 ± 0.654 ( 54)	50.868 ± 4.019 ( 55)
61	0.403 ± 0.026 ( 54)	1.953 ± 0.146 ( 54)	9.587 ± 0.811 ( 54)	46.588 ± 3.692 ( 55)
63	0.404 ± 0.023 ( 54)	1.994 ± 0.197 ( 54)	10.262 ± 0.719 ( 54)	52.666 ± 3.795 ( 55)
65	0.397 ± 0.024 ( 54)	1.959 ± 0.181 ( 54)	9.985 ± 0.731 ( 53)	50.471 ± 4.840 ( 55)
67	0.381 ± 0.026 ( 54)	1.923 ± 0.137 ( 53)	9.511 ± 0.640 ( 53)	48.096 ± 3.266 ( 54)
69	0.404 ± 0.032 ( 53)	1.951 ± 0.127 ( 53)	9.622 ± 0.771 ( 53)	48.849 ± 4.717 ( 54)
71	0.411 ± 0.032 ( 53)	2.065 ± 0.131 ( 53)	10.112 ± 0.696 ( 53)	49.143 ± 3.893 ( 54)
73	0.370 ± 0.037 ( 52)	1.975 ± 0.124 ( 53)	9.848 ± 0.734 ( 53)	52.519 ± 4.362 ( 54)
75	0.412 ± 0.034 ( 51)	2.005 ± 0.220 ( 53)	10.005 ± 0.729 ( 53)	51.833 ± 6.801 ( 53)
77	0.400 ± 0.049 ( 52)	1.970 ± 0.178 ( 52)	9.497 ± 0.912 ( 53)	49.777 ± 3.355 ( 53)

Table 1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 MALE ACTUAL DOSES RECEIVED (mg/kg/day)  
 [MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
79	0.420 ± 0.037 ( 48)	1.971 ± 0.232 ( 52)	9.693 ± 1.114 ( 52)	48.535 ± 2.950 ( 53)
81	0.385 ± 0.043 ( 49)	2.124 ± 0.249 ( 49)	10.043 ± 0.871 ( 51)	51.490 ± 3.367 ( 53)
83	0.375 ± 0.051 ( 48)	1.863 ± 0.216 ( 49)	9.438 ± 1.040 ( 50)	47.408 ± 2.789 ( 53)
85	0.408 ± 0.101 ( 48)	1.900 ± 0.274 ( 48)	9.953 ± 1.526 ( 49)	50.797 ± 4.237 ( 53)
87	0.415 ± 0.049 ( 43)	1.940 ± 0.319 ( 46)	9.983 ± 1.136 ( 49)	51.241 ± 5.460 ( 53)
89	0.375 ± 0.064 ( 43)	2.017 ± 0.339 ( 43)	9.080 ± 1.434 ( 49)	48.952 ± 4.513 ( 52)
91	0.371 ± 0.068 ( 42)	1.823 ± 0.386 ( 43)	10.007 ± 1.383 ( 47)	48.439 ± 4.404 ( 52)
93	0.383 ± 0.057 ( 41)	2.097 ± 0.348 ( 37)	8.787 ± 2.079 ( 46)	47.533 ± 4.708 ( 51)
95	0.390 ± 0.074 ( 39)	1.938 ± 0.295 ( 37)	10.383 ± 1.603 ( 43)	51.314 ± 5.692 ( 51)
97	0.365 ± 0.080 ( 38)	1.929 ± 0.273 ( 35)	9.295 ± 1.738 ( 42)	51.973 ± 6.550 ( 49)
99	0.401 ± 0.065 ( 35)	1.886 ± 0.365 ( 33)	9.464 ± 2.250 ( 41)	49.602 ± 6.263 ( 47)
101	0.350 ± 0.064 ( 35)	1.921 ± 0.417 ( 32)	9.990 ± 1.918 ( 36)	45.687 ± 6.505 ( 45)
103	0.371 ± 0.103 ( 34)	1.958 ± 0.572 ( 30)	9.138 ± 2.690 ( 34)	54.756 ± 10.427 ( 43)
104	0.399 ± 0.113 ( 29)	2.201 ± 0.443 ( 24)	9.723 ± 2.311 ( 29)	57.188 ± 11.849 ( 40)

COMBINED DOSAGE MEASUREMENTS ACROSS TIME (mg/kg/day)  
 [MEAN AND STANDARD DEVIATION (n)]

SEX GROUP	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
MALES	0.392 ± 0.046 (3538)	1.975 ± 0.207 (3518)	9.864 ± 1.178 (3584)	49.736 ± 4.883 (3669)
FEMALES	0.394 ± 0.046 (3606)	1.970 ± 0.212 (3641)	9.908 ± 1.085 (3710)	49.245 ± 4.628 (3715)
COMBINED	0.393 ± 0.046 (7144)	1.972 ± 0.209 (7159)	9.886 ± 1.132 (7294)	49.489 ± 4.763 (7384)

Table 2

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
1	0.382 ± 0.031 ( 75)	1.914 ± 0.168 ( 75)	9.540 ± 0.882 ( 75)	46.801 ± 4.226 ( 75)
2	0.338 ± 0.027 ( 75)	1.801 ± 0.133 ( 75)	9.219 ± 0.817 ( 75)	44.436 ± 3.344 ( 75)
3	0.379 ± 0.030 ( 75)	1.925 ± 0.140 ( 69)	9.685 ± 0.774 ( 75)	48.263 ± 3.205 ( 75)
4	0.352 ± 0.022 ( 75)	2.004 ± 0.126 ( 75)	9.576 ± 0.656 ( 75)	48.098 ± 3.706 ( 75)
5	0.413 ± 0.028 ( 75)	1.790 ± 0.125 ( 72)	9.836 ± 0.737 ( 75)	48.427 ± 2.607 ( 75)
6	0.403 ± 0.027 ( 75)	2.024 ± 0.149 ( 75)	10.219 ± 1.127 ( 72)	48.824 ± 2.305 ( 75)
7	0.374 ± 0.027 ( 75)	1.958 ± 0.145 ( 75)	9.591 ± 0.810 ( 75)	48.091 ± 2.709 ( 75)
8	0.383 ± 0.042 ( 75)	1.978 ± 0.134 ( 75)	9.687 ± 0.889 ( 75)	48.560 ± 8.645 ( 75)
9	0.430 ± 0.031 ( 75)	2.091 ± 0.143 ( 75)	10.609 ± 0.833 ( 72)	52.066 ± 3.516 ( 72)
10	0.367 ± 0.026 ( 75)	1.943 ± 0.126 ( 75)	9.390 ± 0.793 ( 72)	49.581 ± 2.873 ( 75)
11	0.404 ± 0.030 ( 75)	1.955 ± 0.168 ( 72)	9.782 ± 0.738 ( 75)	47.880 ± 2.805 ( 75)
12	0.387 ± 0.029 ( 75)	1.908 ± 0.171 ( 75)	9.627 ± 0.752 ( 75)	46.924 ± 2.886 ( 75)
13	0.372 ± 0.024 ( 75)	1.947 ± 0.134 ( 75)	9.385 ± 0.705 ( 75)	49.261 ± 2.470 ( 75)
15	0.425 ± 0.030 ( 75)	2.155 ± 0.149 ( 75)	10.570 ± 0.816 ( 72)	52.133 ± 2.492 ( 72)
17	0.403 ± 0.029 ( 75)	1.849 ± 0.121 ( 75)	9.428 ± 0.709 ( 75)	46.053 ± 2.556 ( 75)

Table 2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
19	0.385 ± 0.026 ( 74)	1.998 ± 0.129 ( 75)	10.065 ± 0.809 ( 75)	48.728 ± 2.664 ( 75)
21	0.382 ± 0.026 ( 74)	2.012 ± 0.159 ( 75)	10.148 ± 0.721 ( 75)	53.090 ± 2.693 ( 75)
23	0.406 ± 0.028 ( 74)	2.249 ± 0.181 ( 75)	10.785 ± 0.855 ( 75)	51.538 ± 3.130 ( 75)
25	0.377 ± 0.030 ( 74)	1.787 ± 0.182 ( 75)	8.943 ± 0.803 ( 75)	45.686 ± 2.890 ( 75)
27	0.435 ± 0.039 ( 67)	2.159 ± 0.203 ( 68)	10.690 ± 0.988 ( 69)	50.946 ± 3.304 ( 68)
29	0.398 ± 0.034 ( 64)	1.941 ± 0.145 ( 65)	10.454 ± 0.816 ( 65)	54.294 ± 3.333 ( 65)
31	0.398 ± 0.033 ( 62)	2.064 ± 0.149 ( 65)	9.568 ± 0.784 ( 65)	47.990 ± 3.540 ( 63)
33	0.409 ± 0.038 ( 64)	2.041 ± 0.131 ( 65)	10.114 ± 0.871 ( 64)	51.048 ± 2.993 ( 65)
35	0.423 ± 0.062 ( 64)	1.984 ± 0.121 ( 65)	9.557 ± 0.759 ( 65)	49.599 ± 2.550 ( 65)
37	0.399 ± 0.040 ( 64)	1.991 ± 0.189 ( 62)	10.425 ± 0.961 ( 65)	51.243 ± 2.797 ( 65)
39	0.411 ± 0.039 ( 64)	2.036 ± 0.216 ( 65)	10.146 ± 0.930 ( 65)	49.633 ± 3.027 ( 65)
41	0.409 ± 0.034 ( 64)	2.014 ± 0.163 ( 65)	9.964 ± 0.888 ( 65)	50.236 ± 3.219 ( 65)
43	0.386 ± 0.035 ( 64)	1.880 ± 0.151 ( 65)	9.442 ± 0.774 ( 65)	48.304 ± 3.020 ( 65)
45	0.378 ± 0.047 ( 64)	2.025 ± 0.188 ( 65)	10.058 ± 1.235 ( 65)	47.088 ± 8.791 ( 65)
47	0.432 ± 0.050 ( 64)	2.022 ± 0.251 ( 62)	9.912 ± 1.190 ( 65)	55.197 ± 6.432 ( 65)

Table 2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
49	0.373 $\pm$ 0.036 ( 64)	1.886 $\pm$ 0.159 ( 65)	9.805 $\pm$ 0.924 ( 65)	44.984 $\pm$ 2.656 ( 65)
51	0.450 $\pm$ 0.048 ( 64)	2.110 $\pm$ 0.169 ( 65)	10.764 $\pm$ 1.057 ( 65)	55.592 $\pm$ 3.988 ( 65)
53	0.410 $\pm$ 0.037 ( 58)	2.005 $\pm$ 0.145 ( 58)	10.151 $\pm$ 0.979 ( 59)	49.742 $\pm$ 3.256 ( 57)
55	0.415 $\pm$ 0.037 ( 54)	1.984 $\pm$ 0.165 ( 55)	10.068 $\pm$ 0.883 ( 55)	49.475 $\pm$ 4.958 ( 55)
57	0.393 $\pm$ 0.043 ( 53)	1.823 $\pm$ 0.170 ( 55)	9.379 $\pm$ 0.868 ( 55)	47.905 $\pm$ 3.478 ( 55)
59	0.368 $\pm$ 0.033 ( 54)	1.904 $\pm$ 0.157 ( 55)	9.636 $\pm$ 0.874 ( 55)	48.076 $\pm$ 3.200 ( 55)
61	0.412 $\pm$ 0.035 ( 54)	2.007 $\pm$ 0.169 ( 55)	10.069 $\pm$ 0.922 ( 55)	47.876 $\pm$ 3.475 ( 55)
63	0.421 $\pm$ 0.037 ( 54)	1.971 $\pm$ 0.166 ( 55)	9.841 $\pm$ 1.092 ( 55)	49.284 $\pm$ 3.469 ( 55)
65	0.361 $\pm$ 0.032 ( 54)	1.990 $\pm$ 0.226 ( 55)	10.146 $\pm$ 1.039 ( 55)	52.412 $\pm$ 3.277 ( 55)
67	0.391 $\pm$ 0.048 ( 54)	1.878 $\pm$ 0.162 ( 55)	9.752 $\pm$ 0.979 ( 55)	47.833 $\pm$ 3.284 ( 55)
69	0.358 $\pm$ 0.043 ( 53)	1.900 $\pm$ 0.209 ( 55)	9.164 $\pm$ 0.981 ( 55)	45.578 $\pm$ 2.955 ( 55)
71	0.413 $\pm$ 0.043 ( 53)	2.077 $\pm$ 0.268 ( 54)	11.138 $\pm$ 1.238 ( 55)	50.581 $\pm$ 2.896 ( 55)
73	0.366 $\pm$ 0.044 ( 53)	1.909 $\pm$ 0.179 ( 54)	9.585 $\pm$ 1.087 ( 55)	49.052 $\pm$ 2.971 ( 55)
75	0.431 $\pm$ 0.044 ( 53)	2.040 $\pm$ 0.185 ( 54)	10.533 $\pm$ 1.136 ( 55)	53.166 $\pm$ 6.764 ( 55)
77	0.378 $\pm$ 0.045 ( 52)	1.877 $\pm$ 0.156 ( 53)	9.602 $\pm$ 0.944 ( 55)	49.438 $\pm$ 3.125 ( 55)

Table 2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE ACTUAL DOSES RECEIVED (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
79	0.430 ± 0.042 ( 51)	2.119 ± 0.277 ( 53)	10.075 ± 1.097 ( 55)	49.295 ± 3.625 ( 55)
81	0.365 ± 0.039 ( 51)	1.803 ± 0.174 ( 53)	9.777 ± 1.008 ( 55)	49.287 ± 4.440 ( 55)
83	0.410 ± 0.043 ( 51)	2.120 ± 0.182 ( 53)	10.351 ± 0.983 ( 54)	48.490 ± 3.358 ( 54)
85	0.417 ± 0.046 ( 51)	1.990 ± 0.250 ( 53)	10.166 ± 1.197 ( 54)	49.806 ± 3.575 ( 54)
87	0.378 ± 0.045 ( 50)	2.005 ± 0.276 ( 51)	10.459 ± 1.203 ( 54)	48.838 ± 3.777 ( 54)
89	0.376 ± 0.060 ( 50)	1.883 ± 0.217 ( 50)	9.490 ± 1.004 ( 54)	48.410 ± 3.321 ( 54)
91	0.391 ± 0.058 ( 48)	2.022 ± 0.282 ( 50)	10.240 ± 1.186 ( 54)	49.993 ± 4.435 ( 54)
93	0.379 ± 0.053 ( 48)	1.849 ± 0.276 ( 50)	9.680 ± 1.247 ( 53)	48.119 ± 5.478 ( 53)
95	0.370 ± 0.077 ( 47)	1.928 ± 0.362 ( 48)	10.010 ± 1.341 ( 52)	50.250 ± 5.324 ( 53)
97	0.398 ± 0.064 ( 46)	2.004 ± 0.297 ( 46)	9.329 ± 1.154 ( 51)	47.816 ± 4.398 ( 52)
99	0.404 ± 0.064 ( 43)	1.886 ± 0.247 ( 43)	9.828 ± 1.439 ( 51)	47.135 ± 5.951 ( 52)
101	0.413 ± 0.043 ( 41)	1.792 ± 0.273 ( 43)	9.665 ± 1.730 ( 50)	47.268 ± 5.837 ( 50)
103	0.382 ± 0.045 ( 40)	1.910 ± 0.290 ( 42)	9.972 ± 1.717 ( 48)	51.392 ± 7.117 ( 48)
104	0.356 ± 0.051 ( 36)	1.938 ± 0.305 ( 38)	9.822 ± 1.883 ( 45)	49.616 ± 7.011 ( 45)

COMBINED DOSAGE MEASUREMENTS ACROSS TIME (mg/kg/day)  
[MEAN AND STANDARD DEVIATION (n)]

SFX GROUP	0.4 mg/kg/day	2.0 mg/kg/day	10.0 mg/kg/day	50.0 mg/kg/day
MALES	0.392 ± 0.046 (3538)	1.975 ± 0.207 (3518)	9.864 ± 1.178 (3584)	49.736 ± 4.883 (3669)
FEMALES	0.394 ± 0.046 (3606)	1.970 ± 0.212 (3641)	9.908 ± 1.085 (3710)	49.245 ± 4.628 (3715)
COMBINED	0.393 ± 0.046 (7144)	1.972 ± 0.209 (7159)	9.886 ± 1.132 (7294)	49.489 ± 4.763 (7384)

TABLE 3

TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY  
OF TRINITROTOLUENE IN THE FISCHER 344 RAT.

## TEST DIET CONCENTRATION OF TNT

TEST WEEK	DOSE (mg/kg/day)	SEX	% INTENDED (I)	% ANALYZED (A)	% REL. SD	A x 100 I	
1	50.0	M	0.0511	0.0489	4.3	96	
1	2.0	M	0.0021	0.00178	12.7	85	
12	0.4	F	0.0007	0.00052	7.7	74	
12	10.0	F	0.0172	0.0134	5.2	78	(85)*
28	2.0	F	0.0044	0.00401	21.7	91	
28	50.0	F	0.1119	0.1046	3.6	93	
36	10.0	M	0.0245	0.0226	4.6	92	
36	0.4	M	0.0010	0.00067	17.9	67	
42	50.0	M	0.1201	0.1227	5.3	102	
42	2.0	M	0.0050	0.00497	10.7	99	
48	10.0	F	0.0206	0.0211	25.1	102	
48	0.4	F	0.0009	0.00062	19.4	69	
54	2.0	F	0.0040	0.00424	34.0	106	(156)*
54	50.0	F	0.0990	0.0979	6.7	99	
60	10.0	M	0.0256	0.0240	2.9	94	(95)**
60	0.4	M	0.0010	0.00089	22.5	89	
66	50.0	M	0.1321	0.1120	1.8	85	(73)***
66	2.0	M	0.0055	0.00454	5.5	82	
72	10.0	F	0.0263	0.0241	6.2	92	
72	0.4	F	0.0010	0.00078	20.5	78	(68)***
78	50.0	F	0.1096	0.0982	1.7	90	
78	2.0	F	0.0044	0.00401	16.0	91	
84	10.0	M	0.0268	0.0261	1.9	97	
84	0.4	M	0.0011	0.00097	8.2	88	
90	50.0	M	0.1260	0.1223	4.3	97	
90	2.0	M	0.0056	0.00526	5.9	94	
95	10.0	F	0.0233	0.0220	3.6	94	
95	0.4	F	0.0009	0.00093	29.0	103	
101	2.0	F	0.0046	0.00489	3.9	106	
101	50.0	F	0.1118	0.1087	2.8	97	
101	0.0	M/F	0.0000	0.0000****			
101	0.0	M/F	0.0000	0.0000***			
104	0.4	M	0.0011	0.00108	5.6	98	
104	10.0	M	0.0262	0.0246	2.4	94	

\* Sample stability tests

\*\* Extract stability test.

\*\*\* Diet stability test after one week in the animal cages.

\*\*\*\* Control diet samples taken before given to the animals.

TABLE 4

TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT

## MEAN SURVIVAL TIME\*

<u>DOSE</u> <u>(mg/kg/day)</u>	<u>SEX</u>	<u>MEAN SURVIVAL</u> <u>TIME (WEEKS)</u>
0.0	M	99.4 $\pm$ 1.3
	F	100.1 $\pm$ 1.4
0.4	M	96.8 $\pm$ 1.6
	F	99.2 $\pm$ 1.6
2.0	M	96.1 $\pm$ 1.6
	F	100.8 $\pm$ 1.0
10.0	M	98.4 $\pm$ 1.4
	F	102.8 $\pm$ 0.6
50.0	M	101.3 $\pm$ 1.0
	F	102.9 $\pm$ 0.5

\* No significant differences among control and treatment groups,  $p < 0.05$ .

Table 5

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TRIT WEEK	0 0 mg/kg/DAY	0 4 mg/kg/DAY	2 0 mg/kg/DAY	10 0 mg/kg/DAY	50 0 mg/kg/DAY
2	102.9 ± 15.0 ( 75)	103.0 ± 16.1 ( 75)	103.8 ± 14.6 ( 75)	105.0 ± 14.3 ( 75)	102.7 ± 14.0 ( 75)
1	128.7 ± 15.6 ( 75)	130.1 ± 16.3 ( 75)	129.5 ± 15.1 ( 75)	128.3 ± 19.5 ( 75)	127.3 ± 15.4 ( 75)
1	159.9 ± 18.2 ( 75)	161.7 ± 19.6 ( 75)	163.0 ± 18.1 ( 75)	162.9 ± 16.8 ( 75)	157.1 ± 17.7 ( 75)
2	191.6 ± 18.5 ( 75)	193.1 ± 19.1 ( 75)	193.0 ± 18.0 ( 75)	189.5 ± 18.2 ( 75)	185.5 ± 17.7 ( 75)
3	217.2 ± 17.8 ( 75)	214.9 ± 21.1 ( 75)	217.3 ± 17.1 ( 75)	212.9 ± 18.6 ( 75)	205.6 ± 17.7 ( 75)*
4	238.6 ± 17.7 ( 75)	238.4 ± 19.6 ( 75)	237.9 ± 17.1 ( 75)	233.7 ± 19.1 ( 75)	224.4 ± 18.0 ( 75)*
5	255.7 ± 18.6 ( 75)	255.9 ± 20.1 ( 75)	254.0 ± 17.4 ( 75)	249.5 ± 20.4 ( 75)	239.3 ± 18.0 ( 75)*
6	270.0 ± 19.4 ( 75)	270.0 ± 19.8 ( 75)	267.7 ± 17.6 ( 75)	262.7 ± 20.4 ( 75)*	250.3 ± 18.6 ( 75)*
7	279.4 ± 21.3 ( 75)	283.1 ± 20.2 ( 75)	280.3 ± 17.4 ( 75)	274.0 ± 21.0 ( 75)	260.2 ± 18.6 ( 75)*
8	293.1 ± 20.3 ( 75)	295.7 ± 20.4 ( 75)	291.8 ± 18.7 ( 75)	285.4 ± 22.9 ( 75)*	268.9 ± 19.6 ( 75)*
9	304.1 ± 20.4 ( 75)	306.2 ± 20.2 ( 75)	303.0 ± 18.0 ( 75)	295.4 ± 22.3 ( 75)*	277.6 ± 19.2 ( 75)*
10	312.9 ± 20.7 ( 75)	313.8 ± 20.3 ( 75)	311.4 ± 17.1 ( 75)	302.8 ± 22.3 ( 75)*	284.9 ± 19.6 ( 75)*
11	321.5 ± 22.7 ( 75)	323.0 ± 20.6 ( 75)	319.8 ± 17.1 ( 75)	311.8 ± 23.1 ( 75)*	292.7 ± 19.9 ( 75)*
12	330.9 ± 21.0 ( 75)	331.8 ± 20.7 ( 75)	328.3 ± 17.4 ( 75)	320.2 ± 23.8 ( 75)*	299.4 ± 19.1 ( 75)*
13	337.1 ± 20.5 ( 75)	338.5 ± 20.0 ( 75)	335.8 ± 17.4 ( 75)	326.2 ± 23.8 ( 75)*	303.2 ± 21.0 ( 75)*
15	344.6 ± 22.1 ( 75)	346.9 ± 20.5 ( 75)	344.3 ± 17.2 ( 75)	335.0 ± 24.0 ( 75)*	311.0 ± 20.7 ( 75)*
17	357.2 ± 22.0 ( 75)	360.5 ± 19.8 ( 75)	357.0 ± 17.7 ( 75)	349.3 ± 24.7 ( 75)*	322.5 ± 21.6 ( 75)*
19	367.6 ± 22.8 ( 75)	369.3 ± 20.7 ( 75)	365.1 ± 18.6 ( 75)	357.5 ± 25.6 ( 75)*	327.8 ± 20.9 ( 75)*
21	376.9 ± 23.2 ( 75)	378.4 ± 22.3 ( 75)	374.6 ± 18.9 ( 75)	364.2 ± 25.4 ( 75)*	334.7 ± 21.5 ( 75)*
23	383.8 ± 24.7 ( 75)	386.1 ± 22.4 ( 75)	382.1 ± 18.7 ( 74)	370.3 ± 26.1 ( 75)*	340.1 ± 21.7 ( 75)*
25	390.0 ± 24.5 ( 75)	393.0 ± 23.4 ( 74)	389.0 ± 18.7 ( 75)	377.6 ± 25.1 ( 75)*	346.8 ± 22.1 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 5 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27	394.3 ± 24.9 ( 69)	397.3 ± 23.2 ( 68)	392.1 ± 17.8 ( 68)	379.2 ± 26.6 ( 68)*	348.4 ± 22.3 ( 68)*
29	403.7 ± 24.7 ( 65)	405.3 ± 23.9 ( 65)	401.4 ± 19.9 ( 65)	386.9 ± 27.1 ( 65)*	354.0 ± 24.2 ( 65)*
31	409.9 ± 25.3 ( 65)	412.6 ± 24.8 ( 65)	409.9 ± 19.8 ( 65)	394.0 ± 29.1 ( 65)*	360.0 ± 24.7 ( 65)*
33	418.1 ± 26.9 ( 65)	418.4 ± 24.2 ( 65)	415.7 ± 20.6 ( 65)	401.0 ± 28.5 ( 65)*	365.9 ± 24.6 ( 65)*
35	421.6 ± 27.4 ( 65)	420.8 ± 25.9 ( 65)	419.7 ± 21.6 ( 65)	403.2 ± 28.3 ( 65)*	367.5 ± 24.8 ( 65)*
37	425.3 ± 28.0 ( 65)	427.2 ± 24.6 ( 65)	425.2 ± 21.0 ( 65)	409.1 ± 29.2 ( 65)*	374.0 ± 24.6 ( 65)*
39	430.8 ± 24.8 ( 64)	429.6 ± 24.7 ( 65)	428.8 ± 20.8 ( 65)	410.4 ± 28.8 ( 65)*	376.1 ± 25.4 ( 65)*
41	433.7 ± 24.6 ( 64)	431.9 ± 24.3 ( 65)	429.3 ± 21.2 ( 65)	411.8 ± 28.7 ( 65)*	376.6 ± 25.8 ( 65)*
43	441.7 ± 26.3 ( 64)	438.4 ± 24.6 ( 65)	437.0 ± 22.6 ( 65)	418.2 ± 29.2 ( 65)*	381.2 ± 26.3 ( 65)*
45	435.3 ± 32.5 ( 64)	433.8 ± 26.6 ( 65)	424.8 ± 26.9 ( 65)	407.8 ± 29.1 ( 65)*	372.7 ± 29.2 ( 65)*
47	430.2 ± 27.0 ( 64)	427.2 ± 26.4 ( 65)	428.4 ± 21.8 ( 64)	405.9 ± 28.4 ( 65)*	361.4 ± 25.0 ( 65)*
49	442.0 ± 26.8 ( 64)	436.6 ± 24.6 ( 64)	437.9 ± 20.3 ( 64)	419.1 ± 28.9 ( 65)*	378.5 ± 24.1 ( 65)*
51	447.3 ± 28.0 ( 64)	442.6 ± 25.5 ( 64)	441.9 ± 21.0 ( 64)	424.0 ± 29.6 ( 65)*	386.8 ± 25.0 ( 65)*
53	446.2 ± 27.9 ( 58)	441.3 ± 22.9 ( 57)	441.9 ± 22.1 ( 57)	422.2 ± 28.3 ( 58)*	386.7 ± 26.3 ( 58)*
55	448.5 ± 28.3 ( 54)	445.5 ± 23.4 ( 54)	447.2 ± 22.5 ( 54)	428.2 ± 26.3 ( 54)*	387.1 ± 25.2 ( 55)*
57	453.8 ± 29.6 ( 54)	449.8 ± 23.6 ( 54)	451.9 ± 21.7 ( 54)	432.0 ± 27.0 ( 54)*	390.1 ± 26.0 ( 55)*
59	455.9 ± 29.7 ( 54)	454.2 ± 24.5 ( 54)	454.0 ± 23.5 ( 54)	432.9 ± 26.7 ( 54)*	389.4 ± 27.2 ( 55)*
61	461.6 ± 30.0 ( 54)	459.4 ± 25.0 ( 54)	459.9 ± 25.9 ( 54)	435.9 ± 28.6 ( 54)*	392.6 ± 27.9 ( 55)*
63	461.1 ± 31.1 ( 54)	459.8 ± 24.9 ( 54)	457.3 ± 28.6 ( 54)	434.5 ± 29.5 ( 54)*	388.9 ± 27.5 ( 55)*
65	463.0 ± 31.1 ( 54)	459.3 ± 25.1 ( 54)	456.4 ± 36.3 ( 54)	435.8 ± 28.3 ( 53)*	387.1 ± 33.5 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 5 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
67	464.8 ± 30.8 (54)	461.1 ± 25.4 (54)	461.9 ± 25.3 (53)	439.7 ± 27.7 (53)*	390.9 ± 26.7 (54)*
69	466.5 ± 31.3 (54)	461.8 ± 27.1 (53)	460.5 ± 26.1 (53)	439.9 ± 28.1 (53)*	390.2 ± 26.8 (54)*
71	463.2 ± 30.8 (54)	458.9 ± 29.7 (53)	458.6 ± 26.2 (53)	436.6 ± 27.9 (53)*	384.0 ± 28.7 (54)*
73	462.9 ± 30.1 (54)	462.1 ± 26.6 (52)	459.4 ± 27.9 (53)	436.0 ± 27.9 (53)*	380.1 ± 31.8 (54)*
75	462.7 ± 30.0 (54)	459.6 ± 30.0 (52)	457.2 ± 28.3 (53)	434.9 ± 28.7 (53)*	382.2 ± 20.8 (53)*
77	458.6 ± 29.8 (54)	455.3 ± 29.6 (52)	450.4 ± 34.2 (52)	431.7 ± 28.7 (53)*	378.5 ± 21.3 (53)*
79	453.7 ± 30.0 (54)	450.7 ± 31.4 (50)	445.3 ± 38.9 (52)	426.0 ± 30.7 (52)*	374.7 ± 19.9 (53)*
81	449.9 ± 29.0 (54)	446.5 ± 36.5 (49)	446.8 ± 30.0 (49)	424.5 ± 31.5 (51)*	374.5 ± 18.9 (53)*
83	448.1 ± 30.7 (53)	446.1 ± 32.4 (48)	442.9 ± 37.3 (49)	425.8 ± 29.1 (50)*	373.2 ± 19.6 (53)*
85	449.5 ± 33.2 (52)	434.3 ± 52.7 (48)	439.4 ± 37.7 (48)	425.0 ± 30.5 (49)*	367.2 ± 21.5 (53)*
87	447.1 ± 32.8 (51)	446.3 ± 29.4 (43)	435.6 ± 44.3 (46)	420.9 ± 29.1 (49)*	364.4 ± 25.3 (53)*
89	445.4 ± 36.5 (50)	438.2 ± 34.1 (43)	434.3 ± 40.9 (43)	417.7 ± 31.3 (49)*	362.0 ± 23.0 (52)*
91	441.3 ± 46.9 (50)	435.0 ± 34.3 (42)	427.5 ± 52.8 (43)	412.0 ± 32.7 (47)*	361.1 ± 27.4 (52)*
93	441.4 ± 49.5 (48)	427.3 ± 44.9 (41)	437.8 ± 35.8 (37)	404.1 ± 38.8 (46)*	358.3 ± 20.9 (51)*
95	443.0 ± 48.4 (45)	427.9 ± 41.0 (39)	433.4 ± 38.6 (37)	402.7 ± 41.2 (43)*	349.4 ± 31.3 (51)*
97	430.9 ± 62.1 (43)	419.6 ± 53.3 (38)	431.9 ± 41.9 (35)	399.0 ± 41.3 (42)*	345.8 ± 32.0 (49)*
99	425.2 ± 37.8 (39)	426.1 ± 38.6 (35)	423.5 ± 44.6 (33)	389.7 ± 44.6 (41)*	342.5 ± 29.7 (47)*
101	414.7 ± 40.7 (37)	422.5 ± 47.6 (35)	417.4 ± 51.7 (32)	391.9 ± 39.1 (36)*	339.0 ± 23.2 (45)*
103	409.6 ± 38.4 (35)	412.5 ± 49.9 (34)	407.6 ± 51.9 (30)	380.1 ± 53.6 (34)*	325.9 ± 33.8 (43)*
104	402.2 ± 44.2 (32)	401.0 ± 58.5 (29)	409.5 ± 42.1 (24)	383.2 ± 51.8 (29)	313.8 ± 40.1 (40)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 6

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHT GAIN MEASUREMENTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
1-(-1)	31.1 ± 8.9 ( 75)	31.6 ± 8.3 ( 75)	33.5 ± 7.3 ( 75)	34.7 ± 14.7 ( 75)*	29.8 ± 7.8 ( 75)
2 (-1)	62.9 ± 14.2 ( 75)	63.0 ± 10.0 ( 75)	63.4 ± 8.8 ( 75)	61.3 ± 18.0 ( 75)	58.2 ± 9.6 ( 75)*
3-(-1)	88.4 ± 12.2 ( 75)	84.7 ± 15.6 ( 75)	87.8 ± 9.9 ( 75)	84.7 ± 19.6 ( 75)	78.3 ± 11.0 ( 75)*
4-(-1)	109.9 ± 13.2 ( 75)	108.2 ± 12.3 ( 75)	108.4 ± 10.9 ( 75)	105.5 ± 20.6 ( 75)	97.1 ± 14.0 ( 75)*
5-(-1)	126.9 ± 15.6 ( 75)	125.7 ± 13.9 ( 75)	124.5 ± 12.2 ( 75)	121.2 ± 21.8 ( 75)*	112.0 ± 13.8 ( 75)*
6-(-1)	141.3 ± 16.8 ( 75)	139.9 ± 14.1 ( 75)	138.2 ± 12.4 ( 75)	134.5 ± 22.8 ( 75)*	123.0 ± 14.7 ( 75)*
7-(-1)	150.6 ± 20.4 ( 75)	152.9 ± 14.5 ( 75)	150.8 ± 13.4 ( 75)	145.7 ± 23.5 ( 75)	132.9 ± 14.8 ( 75)*
8-(-1)	164.4 ± 18.4 ( 75)	165.5 ± 15.6 ( 75)	162.3 ± 13.6 ( 75)	157.2 ± 25.5 ( 75)*	141.6 ± 16.0 ( 75)*
9-(-1)	175.4 ± 18.9 ( 75)	176.0 ± 16.1 ( 75)	173.4 ± 13.9 ( 75)	167.1 ± 25.6 ( 75)*	150.3 ± 16.3 ( 75)*
10-(-1)	184.1 ± 19.2 ( 75)	183.7 ± 17.6 ( 75)	181.9 ± 13.8 ( 75)	174.5 ± 25.2 ( 75)*	157.6 ± 17.4 ( 75)*
11 (-1)	192.8 ± 24.4 ( 75)	192.9 ± 17.6 ( 75)	190.3 ± 14.3 ( 75)	183.5 ± 25.9 ( 75)*	165.4 ± 17.9 ( 75)*
12 (-1)	202.2 ± 19.7 ( 75)	201.6 ± 17.8 ( 75)	198.8 ± 15.4 ( 75)	192.0 ± 26.5 ( 75)*	172.1 ± 17.9 ( 75)*
13 (-1)	208.4 ± 20.0 ( 75)	208.3 ± 17.2 ( 75)	206.2 ± 16.0 ( 75)	197.9 ± 26.9 ( 75)*	175.9 ± 18.7 ( 75)*
15 (-1)	215.9 ± 23.3 ( 75)	216.7 ± 17.9 ( 75)	214.8 ± 16.4 ( 75)	206.7 ± 27.0 ( 75)*	183.7 ± 19.4 ( 75)*
17 (-1)	228.5 ± 21.4 ( 75)	230.4 ± 19.3 ( 75)	227.5 ± 16.9 ( 75)	221.1 ± 27.7 ( 75)	195.2 ± 20.9 ( 75)*
19 (-1)	238.9 ± 21.4 ( 75)	239.2 ± 18.9 ( 75)	235.5 ± 17.1 ( 75)	229.2 ± 29.0 ( 75)*	200.5 ± 19.1 ( 75)*
21 (-1)	248.2 ± 21.9 ( 75)	248.3 ± 20.3 ( 75)	245.1 ± 18.1 ( 75)	235.9 ± 28.3 ( 75)*	207.4 ± 20.5 ( 75)*
23 (-1)	255.1 ± 23.3 ( 75)	255.9 ± 20.3 ( 75)	252.7 ± 18.1 ( 74)	242.1 ± 29.1 ( 75)*	212.8 ± 20.4 ( 75)*
25 (-1)	261.3 ± 23.6 ( 75)	262.7 ± 21.2 ( 74)	259.5 ± 18.3 ( 75)	249.3 ± 28.4 ( 75)*	219.5 ± 21.0 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 6 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHT GAIN MEASUREMENTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27-(-1)	264.8 ± 22.9 ( 69)	266.9 ± 21.0 ( 68)	262.0 ± 18.1 ( 68)	252.4 ± 30.0 ( 68)*	221.8 ± 21.4 ( 68)*
29-(-1)	274.1 ± 23.2 ( 65)	275.0 ± 22.7 ( 65)	271.1 ± 20.1 ( 65)	259.4 ± 29.7 ( 65)*	227.4 ± 23.0 ( 65)*
31-(-1)	280.2 ± 23.7 ( 65)	282.4 ± 23.1 ( 65)	279.6 ± 19.5 ( 65)	266.5 ± 31.2 ( 65)*	233.3 ± 23.8 ( 65)*
33-(-1)	288.5 ± 25.3 ( 65)	288.1 ± 22.7 ( 65)	285.4 ± 20.1 ( 65)	273.4 ± 30.5 ( 65)*	239.2 ± 23.2 ( 65)*
35-(-1)	291.9 ± 26.1 ( 65)	290.5 ± 23.6 ( 65)	289.5 ± 20.4 ( 65)	275.7 ± 31.0 ( 65)*	240.8 ± 22.6 ( 65)*
37-(-1)	295.7 ± 26.4 ( 65)	296.9 ± 22.9 ( 65)	294.9 ± 20.2 ( 65)	281.6 ± 31.8 ( 65)*	247.4 ± 23.0 ( 65)*
39-(-1)	300.9 ± 24.4 ( 64)	299.3 ± 23.2 ( 65)	298.6 ± 20.6 ( 65)	282.9 ± 31.3 ( 65)*	249.4 ± 23.7 ( 65)*
41-(-1)	303.8 ± 24.5 ( 64)	301.6 ± 23.6 ( 65)	299.0 ± 20.5 ( 65)	284.3 ± 31.1 ( 65)*	250.0 ± 24.5 ( 65)*
43-(-1)	311.8 ± 25.8 ( 64)	308.1 ± 23.8 ( 65)	306.8 ± 22.0 ( 65)	290.7 ± 32.0 ( 65)*	254.5 ± 23.6 ( 65)*
45-(-1)	305.4 ± 31.5 ( 64)	303.5 ± 28.3 ( 65)	294.5 ± 25.2 ( 65)	280.2 ± 30.6 ( 65)*	246.1 ± 29.8 ( 65)*
47-(-1)	300.3 ± 28.2 ( 64)	296.9 ± 28.0 ( 65)	297.9 ± 21.4 ( 64)	278.4 ± 30.9 ( 65)*	234.7 ± 25.1 ( 65)*
49-(-1)	312.1 ± 27.1 ( 64)	306.5 ± 25.4 ( 64)	307.3 ± 20.0 ( 64)	291.5 ± 32.2 ( 65)*	251.8 ± 23.6 ( 65)*
51-(-1)	317.3 ± 27.4 ( 64)	312.6 ± 26.1 ( 64)	311.4 ± 20.5 ( 64)	296.5 ± 32.9 ( 65)*	260.1 ± 24.0 ( 65)*
53-(-1)	315.7 ± 25.6 ( 58)	311.8 ± 23.6 ( 57)	310.8 ± 21.5 ( 57)	296.6 ± 31.9 ( 58)*	258.9 ± 25.1 ( 58)*
55-(-1)	317.5 ± 25.7 ( 54)	316.3 ± 25.2 ( 54)	316.3 ± 22.7 ( 54)	302.3 ± 31.2 ( 54)*	259.9 ± 24.6 ( 55)*
57-(-1)	322.7 ± 27.6 ( 54)	320.6 ± 25.4 ( 54)	321.0 ± 22.2 ( 54)	306.1 ± 31.3 ( 54)*	262.8 ± 25.1 ( 55)*
59-(-1)	324.8 ± 26.7 ( 54)	325.0 ± 27.0 ( 54)	323.1 ± 22.7 ( 54)	307.0 ± 30.7 ( 54)*	262.1 ± 26.7 ( 55)*
61-(-1)	330.6 ± 28.1 ( 54)	330.3 ± 27.0 ( 54)	329.0 ± 24.7 ( 54)	310.0 ± 31.6 ( 54)*	265.3 ± 27.4 ( 55)*
63-(-1)	330.1 ± 28.2 ( 54)	330.6 ± 27.0 ( 54)	326.4 ± 27.5 ( 54)	308.6 ± 32.4 ( 54)*	261.6 ± 27.5 ( 55)*
65-(-1)	331.9 ± 27.9 ( 54)	330.1 ± 27.0 ( 54)	325.5 ± 36.2 ( 54)	310.2 ± 31.8 ( 53)*	259.9 ± 33.6 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 6 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE BODY WEIGHT GAIN MEASUREMENTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

WEEK	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
67 (-1)	333.8 ± 28.2 (54)	331.1 ± 23.8 (53)	314.0 ± 31.0 (53)*	263.7 ± 25.3 (54)*
69 (-1)	335.5 ± 28.0 (54)	329.7 ± 24.5 (53)	314.2 ± 31.6 (53)*	263.1 ± 24.5 (54)*
71 (-1)	332.2 ± 27.7 (54)	329.7 ± 30.4 (53)	310.9 ± 31.4 (53)*	256.9 ± 26.6 (54)*
73 (-1)	331.8 ± 27.5 (54)	332.6 ± 28.7 (52)	310.4 ± 30.9 (53)*	253.0 ± 29.3 (54)*
75 (-1)	331.6 ± 26.7 (54)	330.1 ± 32.6 (52)	309.2 ± 31.5 (53)*	254.5 ± 21.3 (53)*
77 (-1)	327.6 ± 26.8 (54)	325.8 ± 32.4 (52)	306.0 ± 30.8 (53)*	250.8 ± 22.1 (53)*
79 (-1)	322.7 ± 27.6 (54)	321.7 ± 31.5 (50)	300.2 ± 30.8 (52)*	247.1 ± 20.6 (53)*
81 (-1)	318.9 ± 28.4 (54)	317.3 ± 36.9 (49)	298.5 ± 31.5 (51)*	246.8 ± 20.7 (53)*
83 (-1)	317.2 ± 32.4 (53)	317.3 ± 30.8 (48)	299.0 ± 31.6 (50)*	245.5 ± 21.1 (53)*
85 (-1)	319.2 ± 33.5 (52)	305.4 ± 50.2 (48)	297.8 ± 32.4 (49)*	239.6 ± 24.0 (53)*
87 (-1)	317.0 ± 32.1 (51)	317.3 ± 25.5 (43)	293.7 ± 31.3 (49)*	236.7 ± 27.6 (53)*
89 (-1)	315.1 ± 36.2 (50)	309.2 ± 29.2 (43)	290.5 ± 32.9 (49)*	234.7 ± 23.5 (52)*
91 (-1)	311.0 ± 46.1 (50)	305.1 ± 31.7 (42)	284.8 ± 34.2 (47)*	233.8 ± 27.6 (52)*
93 (-1)	310.9 ± 49.6 (48)	296.9 ± 44.0 (41)	277.2 ± 39.2 (46)*	230.5 ± 24.7 (51)*
95 (-1)	312.6 ± 48.1 (45)	298.2 ± 38.0 (39)	275.4 ± 42.4 (43)*	221.6 ± 36.0 (51)*
97 (-1)	300.8 ± 62.2 (43)	290.0 ± 51.1 (38)	271.2 ± 44.0 (42)*	218.2 ± 37.6 (49)*
99 (-1)	295.4 ± 37.1 (39)	296.5 ± 36.7 (35)	261.8 ± 48.1 (41)*	215.5 ± 35.0 (47)*
101 (-1)	284.7 ± 40.9 (37)	292.9 ± 46.2 (35)	264.2 ± 44.2 (36)	212.8 ± 25.8 (45)*
103 (-1)	278.9 ± 40.3 (35)	282.6 ± 49.5 (34)	252.7 ± 58.5 (34)*	200.8 ± 34.6 (43)*
104 (-1)	270.8 ± 47.8 (32)	269.9 ± 57.8 (29)	257.6 ± 55.0 (29)	188.4 ± 39.6 (40)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 7

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
2	89.4 ± 12.4 ( 75)	89.2 ± 11.8 ( 75)	88.3 ± 12.1 ( 75)	89.3 ± 12.0 ( 75)	88.8 ± 12.6 ( 75)
4	104.3 ± 12.2 ( 75)	105.5 ± 11.1 ( 75)	104.9 ± 10.8 ( 75)	105.7 ± 10.8 ( 75)	104.7 ± 10.7 ( 75)
6	121.3 ± 11.4 ( 75)	122.1 ± 10.8 ( 75)	120.7 ± 10.9 ( 75)	121.5 ± 11.2 ( 75)	119.5 ± 10.0 ( 75)
8	134.6 ± 10.8 ( 75)	134.7 ± 10.4 ( 75)	134.3 ± 10.1 ( 75)	133.7 ± 10.3 ( 75)	130.6 ± 8.9 ( 75)*
10	143.1 ± 11.0 ( 75)	144.3 ± 11.3 ( 75)	144.1 ± 10.3 ( 75)	142.0 ± 10.2 ( 75)	138.1 ± 8.7 ( 75)*
12	151.6 ± 10.5 ( 75)	152.9 ± 10.1 ( 75)	151.9 ± 9.8 ( 75)	150.6 ± 10.0 ( 75)	145.6 ± 8.3 ( 75)*
14	158.4 ± 10.9 ( 75)	159.7 ± 11.1 ( 75)	158.1 ± 10.1 ( 75)	156.5 ± 11.1 ( 75)	150.5 ± 8.5 ( 75)*
16	164.2 ± 10.8 ( 75)	165.5 ± 11.3 ( 75)	164.9 ± 10.9 ( 75)	162.8 ± 11.0 ( 75)	155.0 ± 8.4 ( 75)*
18	167.8 ± 10.9 ( 75)	169.9 ± 11.5 ( 75)	168.9 ± 11.0 ( 75)	166.1 ± 11.6 ( 75)	158.7 ± 8.7 ( 75)*
20	172.0 ± 11.6 ( 75)	174.0 ± 12.0 ( 75)	173.5 ± 11.4 ( 75)	170.5 ± 11.5 ( 75)	162.2 ± 8.5 ( 75)*
22	176.3 ± 11.6 ( 75)	176.6 ± 12.7 ( 75)	177.0 ± 11.1 ( 75)	173.2 ± 11.6 ( 75)	164.6 ± 8.5 ( 75)*
24	179.0 ± 11.8 ( 75)	180.3 ± 12.3 ( 75)	180.5 ± 11.7 ( 75)	175.2 ± 11.8 ( 75)	167.2 ± 8.6 ( 75)*
26	182.3 ± 12.0 ( 75)	183.9 ± 12.8 ( 75)	183.5 ± 12.3 ( 75)	180.3 ± 12.2 ( 75)	169.2 ± 8.9 ( 75)*
28	185.4 ± 12.3 ( 75)	186.7 ± 12.0 ( 75)	185.9 ± 12.5 ( 75)	183.2 ± 12.2 ( 75)	172.7 ± 9.2 ( 75)*
30	186.6 ± 12.2 ( 75)	188.5 ± 12.4 ( 75)	187.7 ± 11.4 ( 75)	184.2 ± 12.2 ( 75)	173.2 ± 9.4 ( 75)*
32	188.3 ± 12.2 ( 75)	190.8 ± 12.3 ( 75)	189.7 ± 11.8 ( 75)	186.4 ± 12.5 ( 75)	175.2 ± 9.7 ( 75)*
34	192.8 ± 12.0 ( 75)	195.1 ± 12.9 ( 75)	194.0 ± 12.1 ( 75)	190.7 ± 12.5 ( 75)	179.6 ± 9.0 ( 75)*
36	196.4 ± 12.7 ( 75)	197.5 ± 13.5 ( 74)	197.2 ± 11.3 ( 75)	193.2 ± 12.2 ( 75)	179.6 ± 9.9 ( 75)*
38	200.1 ± 12.5 ( 75)	201.1 ± 13.6 ( 74)	199.6 ± 12.7 ( 75)	195.7 ± 12.4 ( 75)*	182.4 ± 9.6 ( 75)*
40	202.3 ± 12.8 ( 75)	203.5 ± 13.3 ( 74)	202.0 ± 12.0 ( 75)	198.7 ± 12.8 ( 75)	185.3 ± 9.6 ( 75)*
42	205.6 ± 12.4 ( 75)	207.7 ± 13.6 ( 74)	206.4 ± 12.3 ( 75)	200.9 ± 13.3 ( 75)*	187.3 ± 10.3 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 7 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHTS (grams)  
(MEAN AND STANDARD DEVIATION (n))

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27	207.0 ± 12.5 ( 68)	207.1 ± 13.9 ( 68)	207.5 ± 12.3 ( 68)	201.9 ± 13.3 ( 69)*	186.4 ± 9.8 ( 68)*
29	209.6 ± 12.9 ( 64)	210.3 ± 15.4 ( 64)	210.9 ± 11.6 ( 65)	204.0 ± 13.8 ( 65)*	189.2 ± 10.3 ( 65)*
31	213.7 ± 13.2 ( 64)	215.4 ± 15.6 ( 64)	214.0 ± 12.6 ( 65)	207.8 ± 14.0 ( 65)*	192.4 ± 10.8 ( 65)*
33	217.0 ± 14.1 ( 64)	219.1 ± 15.7 ( 64)	218.0 ± 12.3 ( 65)	212.0 ± 13.8 ( 64)	192.8 ± 10.0 ( 65)*
35	218.5 ± 14.5 ( 64)	220.9 ± 15.6 ( 64)	219.2 ± 12.1 ( 65)	213.5 ± 14.7 ( 65)	195.8 ± 11.0 ( 65)*
37	223.7 ± 13.9 ( 64)	223.8 ± 15.6 ( 64)	223.0 ± 11.9 ( 65)	215.7 ± 14.9 ( 65)*	197.4 ± 10.8 ( 65)*
39	224.9 ± 14.2 ( 64)	226.2 ± 16.1 ( 64)	226.0 ± 12.3 ( 65)	218.1 ± 15.5 ( 65)**	199.5 ± 10.9 ( 65)*
41	226.5 ± 13.7 ( 64)	228.2 ± 17.1 ( 64)	228.4 ± 13.1 ( 65)	219.5 ± 15.9 ( 65)*	199.5 ± 10.6 ( 65)*
43	229.9 ± 14.7 ( 64)	232.5 ± 18.1 ( 64)	231.8 ± 13.1 ( 65)	223.2 ± 16.3 ( 65)*	202.4 ± 11.7 ( 65)*
45	229.8 ± 15.0 ( 64)	231.6 ± 20.5 ( 64)	233.2 ± 13.3 ( 65)	221.4 ± 17.3 ( 65)*	197.6 ± 12.0 ( 65)*
47	230.7 ± 15.6 ( 64)	233.2 ± 18.8 ( 64)	230.3 ± 13.3 ( 65)	223.4 ± 16.0 ( 65)*	200.3 ± 12.7 ( 65)*
49	235.6 ± 15.2 ( 64)	239.2 ± 20.1 ( 64)	237.2 ± 15.2 ( 65)	227.6 ± 17.6 ( 65)*	206.2 ± 11.5 ( 65)*
51	237.3 ± 15.1 ( 64)	240.9 ± 20.1 ( 64)	239.0 ± 15.7 ( 65)	228.6 ± 17.9 ( 65)*	205.9 ± 11.9 ( 65)*
53	239.3 ± 16.2 ( 58)	244.2 ± 20.4 ( 58)	241.8 ± 15.3 ( 58)	229.6 ± 16.7 ( 59)*	207.4 ± 11.9 ( 58)*
55	242.9 ± 17.2 ( 54)	249.7 ± 21.1 ( 54)	245.8 ± 15.2 ( 55)	233.4 ± 19.0 ( 55)*	209.2 ± 12.2 ( 55)*
57	250.1 ± 18.5 ( 54)	255.8 ± 22.5 ( 54)	250.7 ± 16.3 ( 55)	238.5 ± 19.5 ( 55)*	211.8 ± 13.0 ( 55)*
59	254.0 ± 19.4 ( 54)	260.2 ± 22.8 ( 54)	256.8 ± 17.3 ( 55)	242.8 ± 21.1 ( 55)*	213.7 ± 13.4 ( 55)*
61	262.1 ± 20.7 ( 54)	267.9 ± 22.0 ( 54)	262.7 ± 17.1 ( 55)	249.1 ± 22.0 ( 55)*	218.1 ± 13.8 ( 55)*
63	268.7 ± 21.0 ( 54)	272.7 ± 22.3 ( 54)	268.2 ± 18.0 ( 55)	252.4 ± 22.2 ( 55)*	217.4 ± 13.6 ( 55)*
65	274.3 ± 21.6 ( 54)	277.5 ± 21.8 ( 54)	272.0 ± 18.9 ( 55)	256.3 ± 22.7 ( 55)*	219.7 ± 14.8 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 7 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
67	280.8 ± 21.9 ( 54)	281.3 ± 22.2 ( 54)	278.8 ± 20.0 ( 55)	260.5 ± 23.6 ( 55)*	220.9 ± 14.6 ( 55)*
69	285.4 ± 22.7 ( 54)	285.7 ± 23.6 ( 53)	283.5 ± 20.3 ( 55)	265.7 ± 25.2 ( 55)*	226.7 ± 15.2 ( 55)*
71	285.4 ± 22.9 ( 54)	287.4 ± 24.0 ( 53)	282.8 ± 22.0 ( 55)	265.9 ± 25.4 ( 55)*	225.6 ± 15.6 ( 55)*
73	288.1 ± 25.4 ( 54)	290.8 ± 25.8 ( 53)	285.5 ± 20.3 ( 54)	269.2 ± 25.4 ( 55)*	226.7 ± 16.0 ( 55)*
75	290.2 ± 28.3 ( 54)	292.4 ± 29.6 ( 53)	287.9 ± 22.5 ( 54)	272.3 ± 26.2 ( 55)*	228.7 ± 16.7 ( 55)*
77	296.5 ± 24.3 ( 52)	295.4 ± 29.2 ( 52)	292.7 ± 21.5 ( 53)	273.3 ± 25.4 ( 55)*	229.7 ± 16.9 ( 55)*
79	296.6 ± 26.0 ( 52)	298.2 ± 23.4 ( 51)	293.3 ± 22.6 ( 53)	274.4 ± 26.7 ( 55)*	231.0 ± 17.9 ( 55)*
81	296.8 ± 24.8 ( 52)	299.3 ± 23.3 ( 51)	294.6 ± 23.0 ( 53)	276.8 ± 26.0 ( 55)*	234.2 ± 18.5 ( 55)*
83	299.4 ± 21.7 ( 51)	299.9 ± 22.8 ( 51)	298.0 ± 22.0 ( 53)	277.9 ± 27.1 ( 54)*	236.9 ± 19.9 ( 54)*
85	301.5 ± 22.9 ( 51)	299.3 ± 23.1 ( 51)	297.9 ± 23.9 ( 53)	277.8 ± 27.4 ( 54)*	237.4 ± 21.3 ( 54)*
87	301.5 ± 27.1 ( 51)	300.6 ± 24.1 ( 50)	299.8 ± 25.1 ( 52)	280.9 ± 29.4 ( 54)*	240.4 ± 20.7 ( 54)*
89	301.8 ± 33.3 ( 51)	298.3 ± 29.0 ( 50)	302.6 ± 24.7 ( 50)	282.4 ± 30.7 ( 54)*	240.5 ± 22.1 ( 54)*
91	306.0 ± 32.3 ( 50)	301.0 ± 31.3 ( 48)	305.4 ± 24.6 ( 50)	283.6 ± 34.3 ( 54)*	242.0 ± 23.6 ( 54)*
93	311.0 ± 27.0 ( 49)	302.4 ± 36.9 ( 48)	305.2 ± 30.9 ( 50)	286.9 ± 34.7 ( 53)*	242.9 ± 23.0 ( 53)*
95	310.4 ± 26.8 ( 48)	303.2 ± 36.6 ( 47)	304.8 ± 30.5 ( 48)	290.4 ± 29.3 ( 52)*	242.6 ± 25.6 ( 53)*
97	310.3 ± 30.4 ( 48)	303.4 ± 35.3 ( 46)	307.7 ± 36.4 ( 46)	291.8 ± 33.9 ( 51)*	244.3 ± 25.5 ( 52)*
99	309.3 ± 32.2 ( 46)	306.9 ± 31.4 ( 43)	312.3 ± 29.4 ( 43)	290.0 ± 34.3 ( 51)*	240.7 ± 29.1 ( 52)*
101	310.1 ± 35.0 ( 44)	312.2 ± 21.9 ( 41)	313.9 ± 37.0 ( 43)	291.0 ± 39.6 ( 50)*	244.0 ± 30.4 ( 50)*
103	313.1 ± 33.0 ( 42)	309.6 ± 21.4 ( 40)	314.9 ± 38.1 ( 42)	289.0 ± 39.1 ( 48)*	244.7 ± 30.5 ( 48)*
104	305.4 ± 22.6 ( 34)	309.6 ± 21.5 ( 36)	306.9 ± 34.1 ( 38)	281.2 ± 37.7 ( 45)*	243.3 ± 33.1 ( 45)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 8

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHT GAIN MEASUREMENTS (g-ams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
1-(-1)	17.0 ± 5.9 ( 75)	16.5 ± 5.0 ( 75)	15.8 ± 2.8 ( 75)	15.8 ± 4.8 ( 75)	14.7 ± 3.4 ( 75)*
2-(-1)	30.3 ± 7.4 ( 75)	29.2 ± 5.7 ( 75)	29.4 ± 4.7 ( 75)	28.0 ± 5.3 ( 75)*	25.9 ± 4.7 ( 75)*
3-(-1)	39.2 ± 7.7 ( 75)	38.8 ± 8.7 ( 75)	39.2 ± 5.8 ( 75)	36.3 ± 6.4 ( 75)*	33.3 ± 6.3 ( 75)*
4-(-1)	47.3 ± 8.9 ( 75)	47.3 ± 8.0 ( 75)	47.0 ± 7.5 ( 75)	44.9 ± 7.4 ( 75)	40.8 ± 6.8 ( 75)*
5-(-1)	54.1 ± 9.4 ( 75)	54.2 ± 8.1 ( 75)	53.2 ± 7.2 ( 75)	50.8 ± 8.4 ( 75)*	45.7 ± 6.7 ( 75)*
6-(-1)	59.9 ± 9.9 ( 75)	59.9 ± 9.2 ( 75)	60.0 ± 7.9 ( 75)	57.1 ± 9.4 ( 75)	50.2 ± 7.4 ( 75)*
7-(-1)	63.5 ± 10.4 ( 75)	64.3 ± 9.3 ( 75)	64.0 ± 8.3 ( 75)	60.4 ± 9.7 ( 75)	54.0 ± 7.8 ( 75)*
8 ( -1)	67.7 ± 11.0 ( 75)	68.4 ± 9.7 ( 75)	68.6 ± 8.8 ( 75)	64.8 ± 9.7 ( 75)	57.4 ± 7.7 ( 75)*
9 ( -1)	72.1 ± 10.9 ( 75)	71.1 ± 10.6 ( 75)	72.0 ± 9.0 ( 75)	67.5 ± 10.5 ( 75)*	59.9 ± 8.4 ( 75)*
10 ( -1)	74.7 ± 11.0 ( 75)	74.7 ± 10.5 ( 75)	75.5 ± 9.3 ( 75)	69.5 ± 10.5 ( 75)*	62.5 ± 8.2 ( 75)*
11 ( -1)	78.0 ± 11.3 ( 75)	78.4 ± 11.9 ( 75)	78.6 ± 10.7 ( 75)	74.6 ± 11.0 ( 75)	64.4 ± 8.6 ( 75)*
12 ( -1)	81.1 ± 11.7 ( 75)	81.2 ± 10.4 ( 75)	81.0 ± 10.9 ( 75)	77.5 ± 11.0 ( 75)	67.9 ± 8.9 ( 75)*
13 ( -1)	82.3 ± 11.8 ( 75)	83.0 ± 11.1 ( 75)	82.8 ± 9.8 ( 75)	78.5 ± 11.0 ( 75)*	68.4 ± 8.8 ( 75)*
15 ( -1)	84.0 ± 12.2 ( 75)	85.3 ± 11.1 ( 75)	84.8 ± 10.3 ( 75)	80.7 ± 11.7 ( 75)	70.5 ± 9.3 ( 75)*
17 ( -1)	88.5 ± 12.3 ( 75)	89.5 ± 11.5 ( 75)	89.1 ± 10.7 ( 75)	85.0 ± 11.7 ( 75)	74.9 ± 9.5 ( 75)*
19 ( -1)	92.6 ± 12.8 ( 75)	91.9 ± 12.8 ( 74)	92.3 ± 10.0 ( 75)	87.5 ± 11.8 ( 75)*	74.9 ± 10.2 ( 75)*
21 ( -1)	95.8 ± 12.1 ( 75)	95.4 ± 11.4 ( 74)	94.6 ± 11.6 ( 75)	90.0 ± 11.7 ( 75)*	77.7 ± 9.5 ( 75)*
23 ( -1)	98.0 ± 12.7 ( 75)	97.8 ± 12.1 ( 74)	97.1 ± 11.3 ( 75)	93.0 ± 12.1 ( 75)*	80.5 ± 9.5 ( 75)*
25 ( -1)	101.3 ± 11.9 ( 75)	102.1 ± 12.0 ( 74)	101.5 ± 11.0 ( 75)	95.2 ± 12.6 ( 75)*	82.5 ± 10.4 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 8 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHT GAIN MEASUREMENTS (grams)  
(MEAN AND STANDARD DEVIATION (n))

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27 (-1)	103.3 ± 12.3 ( 68)	101.5 ± 13.6 ( 68)	102.6 ± 12.1 ( 68)	96.3 ± 12.7 ( 69)*	81.9 ± 10.0 ( 68)*
29 (-1)	106.4 ± 12.9 ( 64)	104.5 ± 14.4 ( 64)	105.8 ± 10.8 ( 65)	98.3 ± 13.8 ( 65)*	84.0 ± 10.1 ( 65)*
31 (-1)	110.5 ± 12.6 ( 64)	109.7 ± 14.1 ( 64)	108.9 ± 11.6 ( 65)	102.1 ± 13.9 ( 65)*	87.3 ± 10.7 ( 65)*
33 (-1)	113.8 ± 12.9 ( 64)	113.4 ± 14.4 ( 64)	112.9 ± 11.4 ( 65)	106.2 ± 13.8 ( 64)*	87.7 ± 10.4 ( 65)*
35 (-1)	115.3 ± 13.7 ( 64)	115.2 ± 14.4 ( 64)	114.1 ± 10.4 ( 65)	107.8 ± 14.2 ( 65)*	90.6 ± 10.6 ( 65)*
37 (-1)	120.5 ± 13.1 ( 64)	118.0 ± 14.0 ( 64)	117.9 ± 10.6 ( 65)	110.0 ± 14.6 ( 65)*	92.2 ± 11.0 ( 65)*
39 (-1)	121.7 ± 13.9 ( 64)	120.5 ± 14.6 ( 64)	120.8 ± 10.7 ( 65)	112.4 ± 15.4 ( 65)*	94.3 ± 11.1 ( 65)*
41 (-1)	123.3 ± 13.8 ( 64)	122.5 ± 15.3 ( 64)	123.3 ± 11.3 ( 65)	113.8 ± 15.4 ( 65)*	94.3 ± 10.6 ( 65)*
43 (-1)	126.7 ± 13.4 ( 64)	126.8 ± 16.3 ( 64)	126.6 ± 11.8 ( 65)	117.5 ± 15.9 ( 65)*	97.2 ± 11.0 ( 65)*
45 ( 1)	126.5 ± 14.4 ( 64)	125.9 ± 18.4 ( 64)	128.0 ± 11.5 ( 65)	115.7 ± 16.9 ( 65)*	92.4 ± 13.0 ( 65)*
47 ( 1)	127.5 ± 15.3 ( 64)	127.5 ± 16.8 ( 64)	125.2 ± 12.0 ( 65)	117.7 ± 15.3 ( 65)*	95.2 ± 12.1 ( 65)*
49 ( 1)	132.4 ± 15.2 ( 64)	133.5 ± 17.7 ( 64)	132.1 ± 13.9 ( 65)	121.9 ± 16.9 ( 65)*	101.0 ± 10.7 ( 65)*
51 ( 1)	134.1 ± 14.8 ( 64)	135.2 ± 17.7 ( 64)	133.9 ± 14.1 ( 65)	122.9 ± 17.1 ( 65)*	100.7 ± 11.7 ( 65)*
53 ( 1)	136.4 ± 15.5 ( 58)	138.6 ± 18.3 ( 58)	136.2 ± 14.1 ( 58)	124.4 ± 16.0 ( 59)*	102.2 ± 11.7 ( 58)*
55 ( 1)	140.3 ± 17.1 ( 54)	144.2 ± 19.2 ( 54)	139.4 ± 14.3 ( 55)	128.8 ± 18.5 ( 55)*	104.3 ± 11.4 ( 55)*
57 ( 1)	147.5 ± 18.2 ( 54)	150.3 ± 20.2 ( 54)	144.3 ± 14.7 ( 55)	134.0 ± 18.9 ( 55)*	106.8 ± 12.1 ( 55)*
59 (-1)	151.4 ± 20.1 ( 54)	154.7 ± 20.1 ( 54)	150.4 ± 15.2 ( 55)	138.3 ± 20.3 ( 55)*	108.7 ± 12.4 ( 55)*
61 (-1)	159.5 ± 20.4 ( 54)	162.4 ± 19.2 ( 54)	156.3 ± 15.0 ( 55)	144.6 ± 21.6 ( 55)*	113.2 ± 13.0 ( 55)*
63 ( 1)	166.1 ± 20.4 ( 54)	167.2 ± 19.7 ( 54)	161.8 ± 15.6 ( 55)	147.9 ± 21.5 ( 55)*	112.4 ± 13.0 ( 55)*
65 (-1)	171.7 ± 20.4 ( 54)	172.0 ± 19.8 ( 54)	165.6 ± 15.9 ( 55)	151.7 ± 21.6 ( 55)*	114.7 ± 13.6 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 8 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE BODY WEIGHT GAIN MEASUREMENTS (grams)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0 0 mg/kg/DAY	0 4 mg/kg/DAY	2 0 mg/kg/DAY	10 0 mg/kg/DAY	50 0 mg/kg/DAY
67 (-1)	178.2 ± 21.3 ( 54)	175.7 ± 20.6 ( 54)	172.4 ± 16.4 ( 55)	155.9 ± 22.4 ( 55)*	115.9 ± 14.0 ( 55)*
69 (-1)	182.8 ± 22.4 ( 54)	180.5 ± 22.0 ( 53)	177.1 ± 16.8 ( 55)	161.2 ± 23.7 ( 55)*	121.7 ± 14.2 ( 55)*
71 (-1)	182.7 ± 22.1 ( 54)	182.2 ± 22.4 ( 53)	176.4 ± 18.5 ( 55)	161.4 ± 24.4 ( 55)*	120.6 ± 15.1 ( 55)*
73 (-1)	185.4 ± 24.5 ( 54)	185.6 ± 24.1 ( 53)	178.9 ± 16.9 ( 54)	164.6 ± 24.1 ( 55)*	121.7 ± 15.2 ( 55)*
75 (-1)	187.6 ± 27.3 ( 54)	187.1 ± 28.2 ( 53)	181.2 ± 20.2 ( 54)	167.8 ± 24.8 ( 55)*	123.7 ± 15.8 ( 55)*
77 (-1)	193.9 ± 23.3 ( 52)	190.0 ± 28.7 ( 52)	186.3 ± 19.2 ( 53)	168.8 ± 24.6 ( 55)*	124.7 ± 16.0 ( 55)*
79 (-1)	194.0 ± 25.1 ( 52)	193.0 ± 20.9 ( 51)	186.8 ± 20.0 ( 53)	169.9 ± 25.7 ( 55)*	126.1 ± 16.6 ( 55)*
81 (-1)	194.2 ± 24.0 ( 52)	194.1 ± 21.6 ( 51)	188.2 ± 20.6 ( 53)	171.2 ± 25.2 ( 55)*	129.2 ± 17.5 ( 55)*
83 (-1)	196.7 ± 21.7 ( 51)	194.7 ± 20.6 ( 51)	191.6 ± 20.0 ( 53)	173.5 ± 26.2 ( 54)*	132.0 ± 18.5 ( 54)*
85 (-1)	198.9 ± 23.3 ( 51)	194.1 ± 21.4 ( 51)	191.5 ± 22.4 ( 53)	173.5 ± 26.4 ( 54)*	132.6 ± 19.8 ( 54)*
87 (-1)	198.8 ± 27.5 ( 51)	195.9 ± 21.3 ( 50)	193.5 ± 23.3 ( 52)	176.6 ± 27.8 ( 54)*	135.6 ± 19.6 ( 54)*
89 (-1)	199.1 ± 33.8 ( 51)	193.6 ± 25.7 ( 50)	196.2 ± 23.6 ( 50)	178.1 ± 28.7 ( 54)*	135.7 ± 20.8 ( 54)*
91 (-1)	203.7 ± 32.2 ( 50)	196.3 ± 28.2 ( 48)	199.0 ± 22.7 ( 50)	179.3 ± 32.1 ( 54)*	137.2 ± 22.2 ( 54)*
93 (-1)	208.8 ± 26.4 ( 49)	197.7 ± 34.4 ( 48)	198.8 ± 29.5 ( 50)	182.2 ± 33.5 ( 53)*	138.2 ± 20.9 ( 53)*
95 (-1)	208.3 ± 25.7 ( 48)	198.8 ± 31.9 ( 47)	198.5 ± 29.5 ( 48)	185.5 ± 27.9 ( 52)*	137.8 ± 23.5 ( 53)*
97 (-1)	208.1 ± 29.4 ( 48)	198.7 ± 31.9 ( 46)	201.8 ± 34.2 ( 46)	186.6 ± 32.0 ( 51)*	139.6 ± 23.3 ( 52)*
99 (-1)	207.2 ± 31.6 ( 46)	202.1 ± 28.2 ( 43)	205.5 ± 28.5 ( 43)	184.8 ± 31.8 ( 51)*	136.0 ± 26.9 ( 52)*
101 (-1)	207.5 ± 36.8 ( 44)	207.4 ± 17.8 ( 41)	207.0 ± 37.1 ( 43)	185.9 ± 36.8 ( 50)*	139.1 ± 28.4 ( 50)*
103 (-1)	211.1 ± 33.4 ( 42)	204.6 ± 18.3 ( 40)	208.4 ± 37.4 ( 42)	183.5 ± 37.6 ( 48)*	139.6 ± 27.9 ( 48)*
104 (-1)	204.9 ± 24.2 ( 34)	203.3 ± 18.1 ( 36)	199.4 ± 31.9 ( 38)	175.9 ± 37.4 ( 45)*	137.8 ± 30.7 ( 45)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 9

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
-2	13.7 ± 0.9 ( 75)	13.9 ± 1.0 ( 75)	13.7 ± 0.6 ( 75)	13.7 ± 1.1 ( 75)	13.6 ± 0.8 ( 75)
-1	15.0 ± 1.2 ( 75)	15.1 ± 1.0 ( 75)	15.3 ± 0.9 ( 72)	15.3 ± 0.8 ( 75)	14.8 ± 0.8 ( 75)
1	16.0 ± 0.7 ( 75)	15.8 ± 0.9 ( 75)	15.8 ± 0.6 ( 75)	14.9 ± 0.8 ( 75)*	14.8 ± 0.8 ( 75)*
2	16.2 ± 0.8 ( 75)	16.4 ± 1.4 ( 75)	16.6 ± 1.4 ( 75)	17.1 ± 1.2 ( 75)*	15.0 ± 1.0 ( 75)*
3	16.7 ± 0.9 ( 75)	16.4 ± 0.9 ( 75)*	16.4 ± 0.6 ( 75)	16.0 ± 1.0 ( 75)*	15.3 ± 0.8 ( 75)*
4	16.5 ± 0.9 ( 75)	16.5 ± 0.7 ( 75)	16.4 ± 0.6 ( 75)	16.0 ± 0.9 ( 75)*	15.1 ± 0.8 ( 75)*
5	16.7 ± 0.8 ( 75)	17.0 ± 0.9 ( 75)*	16.7 ± 1.1 ( 75)	16.2 ± 1.0 ( 75)*	15.4 ± 0.8 ( 75)*
6	16.5 ± 1.3 ( 75)	16.9 ± 0.9 ( 75)*	16.9 ± 0.8 ( 75)*	16.2 ± 0.7 ( 75)*	15.2 ± 0.7 ( 75)*
7	15.9 ± 1.3 ( 72)	16.3 ± 0.7 ( 75)*	16.0 ± 0.7 ( 75)	15.5 ± 0.7 ( 72)*	14.8 ± 0.7 ( 75)*
8	16.7 ± 0.9 ( 75)	16.5 ± 0.7 ( 75)	16.4 ± 0.7 ( 75)	16.6 ± 1.2 ( 75)	15.2 ± 0.7 ( 75)*
9	16.6 ± 0.7 ( 72)	16.9 ± 0.9 ( 75)*	17.1 ± 0.8 ( 75)*	16.6 ± 0.7 ( 75)	15.4 ± 0.6 ( 75)*
10	16.7 ± 0.8 ( 75)	17.1 ± 0.8 ( 75)*	17.4 ± 1.0 ( 72)*	16.7 ± 0.6 ( 72)	15.6 ± 0.7 ( 75)*
11	16.3 ± 0.9 ( 75)	16.5 ± 0.7 ( 75)	16.6 ± 0.8 ( 75)	16.2 ± 0.9 ( 75)	15.2 ± 0.8 ( 72)*
12	16.1 ± 0.6 ( 75)	15.9 ± 0.7 ( 75)	15.6 ± 1.1 ( 75)*	15.8 ± 0.8 ( 75)*	14.5 ± 0.7 ( 75)*
13	15.9 ± 0.6 ( 75)	16.0 ± 0.6 ( 75)	15.7 ± 0.6 ( 75)	15.7 ± 0.8 ( 75)	14.6 ± 0.8 ( 75)*
15	16.0 ± 0.6 ( 75)	16.1 ± 0.6 ( 75)	16.0 ± 0.8 ( 75)	15.8 ± 0.7 ( 75)	14.6 ± 0.6 ( 75)*
17	16.1 ± 0.8 ( 75)	15.9 ± 0.7 ( 75)	16.0 ± 0.7 ( 75)	15.7 ± 0.9 ( 75)*	14.4 ± 1.2 ( 75)*
19	15.7 ± 0.9 ( 75)	15.9 ± 0.7 ( 75)	15.7 ± 0.5 ( 75)	15.2 ± 0.6 ( 75)*	14.1 ± 0.7 ( 75)*
21	15.8 ± 0.6 ( 75)	16.0 ± 0.6 ( 75)	15.9 ± 0.6 ( 75)	15.3 ± 0.7 ( 75)*	14.2 ± 0.6 ( 75)*
23	16.4 ± 1.0 ( 75)	16.4 ± 1.0 ( 75)	16.2 ± 0.6 ( 75)	16.2 ± 0.8 ( 75)	15.1 ± 0.8 ( 75)*
25	15.8 ± 0.7 ( 75)	15.9 ± 0.7 ( 75)	15.7 ± 0.7 ( 75)	15.5 ± 0.9 ( 75)*	14.5 ± 0.6 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 9 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27	15.4 ± 1.3 ( 72)	16.0 ± 0.7 ( 71)*	15.6 ± 1.2 ( 72)	15.5 ± 0.9 ( 71)	14.3 ± 0.7 ( 72)*
29	16.0 ± 0.9 ( 65)	16.2 ± 1.4 ( 65)	16.3 ± 0.8 ( 65)	15.7 ± 1.1 ( 65)	14.7 ± 0.7 ( 65)*
31	16.5 ± 1.2 ( 65)	16.5 ± 1.0 ( 65)	16.6 ± 0.8 ( 65)	16.3 ± 1.0 ( 65)	15.1 ± 0.7 ( 65)*
33	16.8 ± 1.0 ( 65)	17.0 ± 1.2 ( 65)	16.8 ± 0.8 ( 65)	16.4 ± 0.9 ( 65)*	15.3 ± 0.7 ( 65)*
35	16.6 ± 1.1 ( 65)	16.8 ± 1.1 ( 65)	16.6 ± 0.8 ( 65)	16.5 ± 0.7 ( 65)	15.4 ± 0.7 ( 65)*
37	16.5 ± 1.4 ( 65)	16.8 ± 1.0 ( 65)	16.8 ± 1.7 ( 65)	16.4 ± 1.1 ( 65)	15.7 ± 0.7 ( 65)*
39	17.2 ± 1.1 ( 64)	17.1 ± 1.0 ( 65)	16.9 ± 0.9 ( 65)	16.7 ± 0.9 ( 65)*	15.7 ± 0.8 ( 65)*
41	17.0 ± 0.8 ( 64)	17.0 ± 1.2 ( 65)	17.1 ± 1.5 ( 65)	16.5 ± 0.9 ( 65)*	15.4 ± 0.7 ( 65)*
43	16.7 ± 1.3 ( 64)	16.6 ± 1.0 ( 65)	16.8 ± 1.0 ( 65)	16.3 ± 1.1 ( 65)*	15.6 ± 0.7 ( 65)*
45	15.8 ± 2.1 ( 64)	14.8 ± 2.1 ( 65)*	16.6 ± 1.6 ( 62)*	14.2 ± 2.6 ( 65)*	14.4 ± 1.6 ( 59)*
47	17.4 ± 1.4 ( 64)	16.4 ± 1.6 ( 65)*	16.6 ± 1.1 ( 64)*	16.8 ± 1.4 ( 65)	15.3 ± 1.7 ( 65)*
49	16.2 ± 1.1 ( 64)	15.9 ± 1.0 ( 65)	16.1 ± 0.9 ( 64)	15.6 ± 0.9 ( 65)*	15.3 ± 0.8 ( 65)*
51	17.0 ± 1.1 ( 64)	17.2 ± 1.3 ( 64)	16.8 ± 1.2 ( 64)	16.7 ± 0.9 ( 65)	15.7 ± 0.7 ( 65)*
53	16.8 ± 1.2 ( 58)	17.4 ± 1.1 ( 57)*	17.7 ± 0.9 ( 57)*	16.9 ± 1.0 ( 58)	15.9 ± 0.7 ( 58)*
55	17.5 ± 1.2 ( 54)	17.9 ± 1.2 ( 54)	18.2 ± 1.3 ( 54)*	17.1 ± 1.0 ( 54)	16.0 ± 1.4 ( 55)*
57	17.2 ± 0.9 ( 54)	17.3 ± 2.0 ( 54)	17.1 ± 1.5 ( 53)	16.7 ± 1.1 ( 54)	15.4 ± 0.9 ( 55)*
59	16.9 ± 1.2 ( 54)	17.0 ± 1.1 ( 54)	17.1 ± 1.2 ( 54)	16.4 ± 1.0 ( 54)*	15.2 ± 1.0 ( 55)*
61	16.4 ± 1.2 ( 54)	16.8 ± 1.0 ( 54)	16.6 ± 1.4 ( 54)	15.8 ± 1.1 ( 54)*	14.5 ± 0.9 ( 55)*
63	16.8 ± 1.3 ( 54)	16.9 ± 1.1 ( 54)	16.3 ± 1.8 ( 54)	16.0 ± 0.9 ( 54)*	14.5 ± 0.8 ( 55)*
65	16.6 ± 1.2 ( 54)	16.6 ± 1.1 ( 54)	16.3 ± 1.8 ( 54)	16.4 ± 1.0 ( 53)	14.7 ± 1.1 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 9 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
67	16.3 ± 1.1 ( 51)	16.0 ± 1.1 ( 54)	15.8 ± 1.1 ( 53)*	16.0 ± 0.8 ( 53)	14.5 ± 0.9 ( 54)*
69	15.5 ± 1.1 ( 54)	15.5 ± 1.4 ( 53)	15.2 ± 0.8 ( 53)	15.2 ± 0.9 ( 53)	14.1 ± 1.4 ( 54)*
71	16.0 ± 1.1 ( 54)	15.7 ± 1.3 ( 53)	15.3 ± 1.1 ( 53)*	15.2 ± 0.9 ( 53)*	13.4 ± 1.0 ( 54)*
73	15.5 ± 1.0 ( 54)	15.5 ± 1.6 ( 52)	15.3 ± 0.9 ( 53)	15.2 ± 1.0 ( 53)	13.7 ± 0.9 ( 54)*
75	15.8 ± 1.1 ( 54)	15.7 ± 1.0 ( 51)	15.2 ± 1.5 ( 53)*	15.6 ± 0.9 ( 53)	14.4 ± 1.5 ( 53)*
77	15.9 ± 1.1 ( 54)	15.2 ± 2.1 ( 52)*	15.2 ± 1.4 ( 52)*	15.1 ± 1.2 ( 53)*	14.1 ± 0.7 ( 53)*
79	15.3 ± 1.4 ( 54)	15.8 ± 1.5 ( 48)	15.3 ± 1.2 ( 52)	14.8 ± 1.6 ( 53)	13.8 ± 0.7 ( 53)*
81	15.2 ± 1.9 ( 54)	15.6 ± 2.0 ( 49)	15.7 ± 1.5 ( 49)	15.2 ± 1.4 ( 51)	14.3 ± 0.8 ( 53)*
83	15.2 ± 1.7 ( 53)	15.2 ± 2.2 ( 48)	15.2 ± 1.7 ( 49)	15.0 ± 1.6 ( 50)	13.8 ± 0.7 ( 53)*
85	16.2 ± 2.1 ( 52)	14.6 ± 3.0 ( 48)*	14.9 ± 2.3 ( 48)*	14.8 ± 2.0 ( 49)*	13.7 ± 0.9 ( 53)*
87	15.8 ± 2.0 ( 51)	15.4 ± 1.9 ( 43)	15.0 ± 2.3 ( 46)*	15.6 ± 1.8 ( 49)	13.9 ± 1.4 ( 53)*
89	15.4 ± 2.2 ( 50)	14.9 ± 2.7 ( 43)	15.5 ± 2.2 ( 43)	14.4 ± 2.2 ( 49)*	14.0 ± 1.2 ( 52)*
91	15.4 ± 2.5 ( 50)	14.7 ± 3.1 ( 42)	14.9 ± 3.1 ( 43)	14.6 ± 2.1 ( 47)	13.8 ± 1.1 ( 52)*
93	15.5 ± 2.1 ( 48)	14.8 ± 2.4 ( 41)	15.7 ± 2.0 ( 37)	13.6 ± 3.3 ( 46)*	13.1 ± 1.3 ( 51)*
95	15.3 ± 1.6 ( 45)	15.1 ± 3.0 ( 39)	15.7 ± 2.0 ( 37)	14.7 ± 2.2 ( 43)	13.1 ± 1.7 ( 51)*
97	14.4 ± 4.0 ( 43)	15.3 ± 3.7 ( 38)	15.9 ± 1.8 ( 35)*	14.3 ± 3.0 ( 42)	13.8 ± 1.0 ( 49)
99	14.2 ± 2.5 ( 39)	15.5 ± 2.5 ( 35)*	14.9 ± 2.2 ( 33)	13.7 ± 3.3 ( 41)	13.4 ± 1.3 ( 47)
101	13.3 ± 2.8 ( 37)	14.7 ± 2.7 ( 35)*	14.0 ± 3.0 ( 33)	13.9 ± 2.6 ( 36)	12.2 ± 2.0 ( 45)
103	14.8 ± 2.4 ( 35)	13.8 ± 3.9 ( 35)	13.7 ± 3.7 ( 30)	13.3 ± 3.9 ( 34)	12.3 ± 2.3 ( 43)*
104	13.8 ± 3.8 ( 35)	14.2 ± 3.9 ( 33)	15.0 ± 4.3 ( 28)	14.1 ± 3.1 ( 33)	12.4 ± 2.4 ( 43)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 10

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
-2	11.0 ± 0.6 ( 72)	11.2 ± 0.6 ( 75)*	11.2 ± 0.5 ( 75)*	11.2 ± 0.4 ( 75)*	11.1 ± 0.5 ( 75)
-1	11.6 ± 0.5 ( 75)	11.9 ± 0.6 ( 75)*	11.6 ± 0.6 ( 75)	11.6 ± 0.4 ( 75)	11.4 ± 0.8 ( 75)*
1	11.7 ± 0.5 ( 72)	11.6 ± 0.4 ( 75)	11.5 ± 0.6 ( 75)*	11.3 ± 0.4 ( 75)*	10.9 ± 0.4 ( 75)*
2	11.2 ± 0.6 ( 75)	11.3 ± 0.5 ( 75)	10.9 ± 0.4 ( 75)*	11.1 ± 0.5 ( 75)	10.5 ± 0.6 ( 75)*
3	11.2 ± 0.5 ( 75)	10.9 ± 0.7 ( 75)*	11.1 ± 0.5 ( 69)	10.9 ± 0.5 ( 75)*	10.4 ± 0.6 ( 75)*
4	10.8 ± 0.6 ( 75)	10.7 ± 0.4 ( 75)	10.8 ± 0.6 ( 75)	10.8 ± 0.5 ( 75)	10.1 ± 0.8 ( 75)*
5	10.7 ± 0.7 ( 75)	10.9 ± 0.5 ( 75)*	10.8 ± 0.6 ( 72)	10.8 ± 0.6 ( 75)	10.1 ± 0.5 ( 75)*
6	10.8 ± 0.6 ( 75)	11.1 ± 0.5 ( 75)*	10.7 ± 0.7 ( 75)	11.2 ± 1.1 ( 72)*	10.0 ± 0.5 ( 75)*
7	10.0 ± 0.9 ( 75)	10.5 ± 0.5 ( 75)*	10.3 ± 0.6 ( 75)*	10.3 ± 0.5 ( 75)*	9.6 ± 0.5 ( 75)*
8	10.5 ± 0.7 ( 75)	11.1 ± 0.9 ( 75)*	10.7 ± 0.5 ( 75)	10.9 ± 0.8 ( 75)*	9.8 ± 1.8 ( 75)*
9	10.4 ± 0.7 ( 75)	10.8 ± 0.6 ( 75)*	10.5 ± 0.6 ( 75)	10.6 ± 0.6 ( 72)	9.8 ± 0.7 ( 72)*
10	10.4 ± 0.7 ( 75)	11.0 ± 0.5 ( 75)*	10.6 ± 0.5 ( 75)	10.6 ± 0.6 ( 72)	9.9 ± 0.6 ( 75)*
11	10.1 ± 0.7 ( 75)	10.6 ± 0.5 ( 75)*	10.2 ± 0.6 ( 72)	10.4 ± 0.5 ( 75)*	9.4 ± 0.6 ( 75)*
12	10.3 ± 0.8 ( 75)	10.3 ± 0.6 ( 75)	10.1 ± 0.5 ( 75)*	10.2 ± 0.5 ( 75)	9.5 ± 0.5 ( 75)*
13	9.6 ± 0.7 ( 75)	10.0 ± 0.6 ( 75)*	9.8 ± 0.5 ( 75)*	9.6 ± 0.5 ( 75)	9.0 ± 0.4 ( 75)*
15	10.1 ± 0.6 ( 75)	10.1 ± 0.7 ( 75)	10.2 ± 0.6 ( 75)	9.7 ± 0.5 ( 72)*	8.9 ± 0.4 ( 72)*
17	9.6 ± 0.9 ( 75)	9.8 ± 0.7 ( 75)	9.7 ± 0.5 ( 75)	9.4 ± 0.4 ( 75)	8.8 ± 0.4 ( 75)*
19	9.4 ± 0.5 ( 75)	9.5 ± 0.6 ( 74)	9.4 ± 0.5 ( 75)	9.2 ± 0.5 ( 75)*	8.3 ± 0.5 ( 75)*
21	9.6 ± 0.4 ( 75)	9.6 ± 0.5 ( 74)	9.3 ± 0.5 ( 75)*	9.3 ± 0.5 ( 75)*	8.6 ± 0.4 ( 75)*
23	10.1 ± 0.7 ( 75)	10.3 ± 0.6 ( 74)	10.3 ± 0.7 ( 75)	10.1 ± 0.5 ( 75)	9.2 ± 0.6 ( 75)*
25	9.5 ± 0.6 ( 75)	9.7 ± 0.7 ( 74)*	9.7 ± 0.8 ( 75)	9.4 ± 0.6 ( 75)	8.7 ± 0.5 ( 75)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 10 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
27	9.7 ± 0.9 ( 71)	9.9 ± 0.9 ( 71)	10.1 ± 0.8 ( 71)*	9.6 ± 0.6 ( 72)	8.5 ± 0.5 ( 72)*
29	10.1 ± 0.7 ( 64)	10.4 ± 0.9 ( 64)*	10.2 ± 0.6 ( 65)	10.2 ± 0.5 ( 65)	9.3 ± 0.6 ( 65)*
31	10.3 ± 0.5 ( 64)	10.7 ± 0.9 ( 62)*	10.5 ± 0.6 ( 65)	10.4 ± 0.6 ( 65)	9.4 ± 0.7 ( 63)*
33	10.8 ± 0.7 ( 64)	11.2 ± 1.0 ( 64)*	10.8 ± 0.5 ( 65)	10.8 ± 0.8 ( 65)	9.5 ± 0.7 ( 65)*
35	10.8 ± 0.8 ( 64)	11.6 ± 1.5 ( 64)*	10.9 ± 0.6 ( 65)	10.5 ± 0.5 ( 65)	9.7 ± 0.5 ( 65)*
37	10.8 ± 1.0 ( 64)	11.1 ± 0.9 ( 64)	11.1 ± 0.8 ( 62)	10.8 ± 0.8 ( 65)	10.0 ± 0.5 ( 65)*
39	10.7 ± 1.1 ( 64)	11.6 ± 1.0 ( 64)*	10.9 ± 0.9 ( 65)	11.2 ± 0.6 ( 65)*	10.2 ± 0.7 ( 65)*
41	11.0 ± 0.8 ( 64)	11.6 ± 0.7 ( 64)*	11.2 ± 0.7 ( 65)	11.3 ± 0.6 ( 65)*	10.3 ± 0.6 ( 65)*
43	10.5 ± 0.7 ( 64)	11.2 ± 0.9 ( 64)*	10.9 ± 0.7 ( 65)*	10.9 ± 0.6 ( 65)*	10.1 ± 0.7 ( 65)*
45	10.2 ± 1.0 ( 64)	10.9 ± 1.0 ( 64)*	11.0 ± 0.9 ( 65)*	10.7 ± 1.1 ( 65)*	9.2 ± 1.7 ( 65)*
47	10.9 ± 0.9 ( 64)	11.1 ± 1.2 ( 64)	11.0 ± 1.2 ( 62)	10.7 ± 1.0 ( 65)	9.7 ± 1.1 ( 65)*
49	10.6 ± 0.8 ( 62)	11.1 ± 0.8 ( 64)*	10.9 ± 0.7 ( 65)*	10.5 ± 0.7 ( 65)	9.4 ± 0.6 ( 65)*
51	11.4 ± 0.9 ( 64)	12.0 ± 1.0 ( 64)*	11.4 ± 0.9 ( 65)	11.3 ± 0.7 ( 65)	10.1 ± 0.7 ( 65)*
53	11.5 ± 1.0 ( 58)	12.5 ± 0.8 ( 58)*	12.1 ± 0.8 ( 58)*	11.7 ± 0.8 ( 59)	10.4 ± 0.7 ( 57)*
55	12.3 ± 1.0 ( 54)	12.9 ± 0.9 ( 54)*	12.5 ± 1.0 ( 55)	12.0 ± 0.9 ( 55)	10.6 ± 1.0 ( 55)*
57	11.7 ± 0.8 ( 54)	12.5 ± 1.2 ( 53)*	12.0 ± 1.1 ( 55)	11.8 ± 0.8 ( 55)	10.2 ± 0.8 ( 55)*
59	11.9 ± 0.7 ( 54)	11.9 ± 0.7 ( 54)	11.9 ± 0.9 ( 55)	11.5 ± 0.6 ( 55)*	10.0 ± 0.7 ( 55)*
61	12.1 ± 0.8 ( 54)	12.2 ± 0.8 ( 54)	11.9 ± 0.9 ( 55)	11.4 ± 0.6 ( 55)*	9.7 ± 0.7 ( 55)*
63	12.1 ± 1.1 ( 54)	12.7 ± 0.8 ( 54)*	12.3 ± 0.9 ( 55)	11.3 ± 1.0 ( 55)*	9.6 ± 0.7 ( 55)*
65	12.4 ± 1.2 ( 54)	12.5 ± 0.8 ( 54)	12.3 ± 1.2 ( 55)	11.6 ± 0.7 ( 55)*	10.2 ± 0.7 ( 55)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 10 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE FOOD CONSUMPTION MEASUREMENTS (g/day)  
[MEAN AND STANDARD DEVIATION (n)]

TEST WEEK	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
67	12.2 ± 1.1 ( 54)	12.2 ± 1.4 ( 54)	12.1 ± 1.0 ( 55)	11.5 ± 0.8 ( 55)*	10.2 ± 0.8 ( 55)*
69	10.9 ± 1.1 ( 54)	11.3 ± 1.2 ( 53)	11.4 ± 1.2 ( 55)*	10.7 ± 0.8 ( 55)	9.7 ± 0.7 ( 55)*
71	11.9 ± 1.0 ( 54)	11.8 ± 1.2 ( 53)	11.7 ± 1.6 ( 54)	11.2 ± 0.7 ( 55)*	9.6 ± 0.7 ( 55)*
73	11.4 ± 1.4 ( 54)	11.8 ± 1.3 ( 53)	11.8 ± 1.0 ( 54)	11.2 ± 0.9 ( 55)	9.5 ± 0.6 ( 55)*
75	11.6 ± 1.8 ( 54)	12.5 ± 1.1 ( 53)*	12.5 ± 1.1 ( 54)*	11.9 ± 0.5 ( 55)	10.2 ± 1.6 ( 55)*
77	12.4 ± 1.2 ( 52)	12.3 ± 0.9 ( 52)	12.4 ± 0.9 ( 53)	11.6 ± 0.8 ( 55)*	10.3 ± 0.7 ( 55)*
79	12.2 ± 1.2 ( 52)	12.8 ± 1.0 ( 51)*	12.9 ± 1.5 ( 53)*	11.6 ± 0.8 ( 55)*	10.6 ± 0.6 ( 55)*
81	11.6 ± 1.3 ( 52)	12.1 ± 1.0 ( 51)*	12.0 ± 0.8 ( 53)*	11.5 ± 0.9 ( 55)	10.7 ± 0.9 ( 55)*
83	12.0 ± 1.3 ( 51)	12.2 ± 1.0 ( 51)	12.3 ± 0.9 ( 53)	11.7 ± 0.7 ( 54)	10.8 ± 0.8 ( 54)*
85	12.9 ± 1.5 ( 51)	12.4 ± 1.3 ( 51)	12.3 ± 1.4 ( 53)*	11.9 ± 0.9 ( 54)*	11.0 ± 0.9 ( 54)*
87	12.4 ± 1.3 ( 51)	12.6 ± 1.4 ( 50)	13.0 ± 1.7 ( 51)*	12.6 ± 0.8 ( 54)	11.3 ± 1.0 ( 54)*
89	12.3 ± 1.4 ( 51)	12.4 ± 1.8 ( 50)	12.9 ± 1.0 ( 50)	12.2 ± 0.9 ( 54)	11.2 ± 1.0 ( 54)*
91	12.7 ± 1.4 ( 50)	13.0 ± 1.6 ( 48)	13.1 ± 1.6 ( 50)	12.2 ± 1.1 ( 54)	11.1 ± 1.1 ( 54)*
93	12.4 ± 1.1 ( 49)	12.6 ± 1.7 ( 48)	12.7 ± 1.7 ( 50)	12.2 ± 1.3 ( 53)	10.9 ± 1.3 ( 53)*
95	12.9 ± 1.0 ( 48)	12.3 ± 1.9 ( 47)	12.2 ± 2.3 ( 48)	12.4 ± 1.6 ( 52)	10.9 ± 1.3 ( 53)*
97	12.5 ± 1.7 ( 48)	12.0 ± 2.0 ( 46)	12.4 ± 1.6 ( 46)	12.1 ± 1.4 ( 51)	11.1 ± 1.2 ( 52)*
99	11.6 ± 1.8 ( 47)	12.3 ± 1.7 ( 43)*	12.5 ± 1.6 ( 43)*	11.9 ± 1.5 ( 51)	10.4 ± 1.5 ( 52)*
101	11.4 ± 2.2 ( 44)	12.9 ± 1.4 ( 41)*	12.2 ± 1.9 ( 43)*	11.7 ± 1.6 ( 50)	10.3 ± 1.5 ( 50)*
103	11.9 ± 2.4 ( 42)	13.1 ± 1.4 ( 40)*	12.1 ± 1.6 ( 42)	11.6 ± 1.6 ( 48)	11.0 ± 1.3 ( 48)*
104	11.3 ± 1.8 ( 39)	12.4 ± 1.8 ( 40)*	11.8 ± 2.2 ( 41)	11.2 ± 1.7 ( 48)	10.6 ± 1.3 ( 48)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 11

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE HEMATOLOGY VALUES - TEST WEEK 14  
[MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	45.8 ± 1.7 ( 10)	44.6 ± 1.3 ( 10)	45.2 ± 1.9 ( 10)	44.5 ± 2.0 ( 10)	40.7 ± 1.4 ( 10)*
HGB g/dl	17.40 ± 0.49 ( 10)	17.13 ± 0.39 ( 10)	17.25 ± 0.56 ( 10)	16.76 ± 0.43 ( 10)*	15.31 ± 0.32 ( 10)*
MCV x 10 <sup>3</sup>	49 ± 1 ( 10)	50 ± 1 ( 10)	49 ± 1 ( 10)	48 ± 1 ( 10)*	48 ± 1 ( 10)*
MCH pg	19.4 ± 0.4 ( 10)	19.6 ± 0.6 ( 10)	19.5 ± 0.7 ( 10)	19.1 ± 0.9 ( 10)	19.0 ± 0.7 ( 10)
MCHC g/dl	39.1 ± 0.7 ( 10)	39.5 ± 1.1 ( 10)	39.5 ± 1.4 ( 10)	39.3 ± 1.7 ( 10)	39.2 ± 1.2 ( 10)
RBC x10 <sup>6</sup> /mm <sup>3</sup>	9.25 ± 0.37 ( 10)	8.98 ± 0.32 ( 10)	9.14 ± 0.42 ( 10)	9.13 ± 0.47 ( 10)	8.37 ± 0.36 ( 10)*
WBC x10 <sup>3</sup> /mm <sup>3</sup>	8.1 ± 1.0 ( 10)	8.6 ± 1.5 ( 10)	8.4 ± 1.3 ( 9)	8.5 ± 1.5 ( 8)	8.5 ± 0.8 ( 9)
PLT x10 <sup>3</sup> /mm <sup>3</sup>	652 ± 109 ( 10)	619 ± 105 ( 10)	674 ± 115 ( 10)	671 ± 157 ( 10)	704 ± 111 ( 10)
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	1.5 ± 0.4 ( 10)	1.4 ± 0.4 ( 10)	1.3 ± 0.5 ( 9)	1.6 ± 0.4 ( 8)	1.6 ± 0.6 ( 9)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	6.5 ± 0.8 ( 10)	7.0 ± 1.3 ( 10)	6.9 ± 1.0 ( 9)	6.7 ± 1.3 ( 8)	6.9 ± 0.7 ( 9)
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.1 ± 0.1 ( 9)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)*	0.1 ± 0.2 ( 8)	0.1 ± 0.1 ( 9)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)
NRBC/100 wbc	0 ± 0 ( 10)	0 ± 0 ( 10)	0 ± 0 ( 10)	0 ± 1 ( 10)	1 ± 1 ( 10)
RETIC %rbc	1.3 ± 0.4 ( 10)	1.3 ± 0.4 ( 10)	1.3 ± 0.5 ( 10)	1.3 ± 0.4 ( 10)	1.5 ± 0.5 ( 10)
METHGB g/dl	0.078 ± 0.106 ( 10)	0.110 ± 0.120 ( 10)	0.132 ± 0.141 ( 10)	0.277 ± 0.258 ( 10)*	0.234 ± 0.126 ( 10)
% METHGB	0.453 ± 0.626 ( 10)	0.639 ± 0.696 ( 10)	0.765 ± 0.814 ( 10)	1.634 ± 1.539 ( 10)*	1.503 ± 0.807 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 12

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 FEMALE HEMATOLOGY VALUES - TEST WEEK 14  
 [MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0			2.0			10.0			50.0		
	mg/kg/DAY			mg/kg/DAY			mg/kg/DAY			mg/kg/DAY		
HCT %	44.1 ± 1.8 ( 10)	43.8 ± 1.7 ( 9)	44.2 ± 1.6 ( 10)	43.4 ± 2.4 ( 9)	41.8 ± 1.8 ( 10)*							
HGB g/dl	17.21 ± 0.45 ( 10)	17.21 ± 0.40 ( 10)	16.99 ± 0.29 ( 10)	16.71 ± 0.54 ( 9)*	15.74 ± 0.55 ( 10)*							
MCV x Um <sup>3</sup>	53 ± 1 ( 10)	52 ± 2 ( 10)*	52 ± 1 ( 10)	52 ± 1 ( 9)*	53 ± 1 ( 10)							
MCH pg	21.6 ± 0.8 ( 10)	21.6 ± 0.8 ( 10)	21.0 ± 0.6 ( 10)	21.0 ± 1.0 ( 9)	20.7 ± 0.7 ( 10)*							
MCHC g/dl	40.5 ± 1.3 ( 10)	40.9 ± 1.6 ( 9)	40.0 ± 1.0 ( 10)	40.2 ± 1.9 ( 9)	39.0 ± 1.3 ( 10)*							
RBC x10 <sup>6</sup> /mm <sup>3</sup>	8.25 ± 0.39 ( 10)	8.22 ± 0.36 ( 10)	8.42 ± 0.33 ( 10)	8.26 ± 0.45 ( 9)	7.82 ± 0.32 ( 10)*							
WBC x10 <sup>3</sup> /mm <sup>3</sup>	7.2 ± 1.2 ( 9)	7.3 ± 1.7 ( 7)	6.1 ± 0.9 ( 7)	6.5 ± 1.9 ( 9)	6.9 ± 1.5 ( 8)							
PLT x10 <sup>3</sup> /mm <sup>3</sup>	611 ± 149 ( 10)	533 ± 222 ( 10)	654 ± 143 ( 10)	580 ± 186 ( 10)	737 ± 194 ( 10)							
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 7)	0.0 ± 0.0 ( 7)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 8)							
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	1.3 ± 0.5 ( 9)	1.1 ± 0.5 ( 7)	1.0 ± 0.3 ( 7)	1.2 ± 0.3 ( 9)	1.0 ± 0.5 ( 8)							
Lym x10 <sup>3</sup> /mm <sup>3</sup>	5.8 ± 1.1 ( 9)	6.0 ± 1.8 ( 7)	5.1 ± 0.9 ( 7)	5.2 ± 1.7 ( 9)	5.8 ± 1.4 ( 8)							
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 7)	0.0 ± 0.1 ( 7)	0.0 ± 0.0 ( 9)	0.0 ± 0.1 ( 8)							
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 7)	0.1 ± 0.1 ( 7)	0.1 ± 0.1 ( 9)	0.0 ± 0.0 ( 8)							
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 7)	0.0 ± 0.0 ( 7)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 8)							
NRBC/100 wbc	0 ± 0 ( 10)	0 ± 0 ( 10)	0 ± 1 ( 10)	1 ± 1 ( 10)*	0 ± 1 ( 10)							
RETIC %rbc	1.1 ± 0.3 ( 10)	0.9 ± 0.2 ( 9)	1.0 ± 0.3 ( 10)	1.0 ± 0.4 ( 9)	1.4 ± 0.6 ( 10)							
METHGB g/dl	0.177 ± 0.122 ( 10)	0.122 ± 0.169 ( 10)	0.205 ± 0.281 ( 10)	0.191 ± 0.127 ( 10)	0.116 ± 0.125 ( 10)							
% METHGB	1.023 ± 0.706 ( 10)	0.701 ± 0.959 ( 10)	1.180 ± 1.603 ( 10)	1.207 ± 0.720 ( 9)	0.741 ± 0.802 ( 10)							

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 13

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 MALE HEMATOLOGY VALUES - TEST WEEK 26  
 [MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	44.2 ± 1.3 ( 10)	43.9 ± 1.5 ( 10)	43.9 ± 1.1 ( 10)	43.5 ± 1.2 ( 10)	39.9 ± 1.7 ( 10)*
HGB g/dl	16.62 ± 0.36 ( 10)	16.15 ± 0.39 ( 10)*	16.31 ± 0.36 ( 10)	16.04 ± 0.39 ( 10)*	14.26 ± 0.46 ( 10)*
MCV x 10 <sup>3</sup>	49 ± 1 ( 10)	48 ± 1 ( 10)	48 ± 1 ( 10)	48 ± 0 ( 10)*	47 ± 1 ( 10)*
MCH pg	19.5 ± 0.8 ( 10)	19.2 ± 0.5 ( 10)	19.3 ± 0.6 ( 10)	19.0 ± 0.3 ( 10)	18.4 ± 0.7 ( 10)*
MCHC g/dl	39.9 ± 1.4 ( 10)	39.5 ± 0.9 ( 10)	39.7 ± 1.2 ( 10)	39.6 ± 0.7 ( 10)	38.7 ± 1.4 ( 10)*
RBC x 10 <sup>6</sup> /mm <sup>3</sup>	9.05 ± 0.33 ( 10)	8.99 ± 0.35 ( 10)	9.03 ± 0.27 ( 10)	9.04 ± 0.27 ( 10)	8.34 ± 0.35 ( 10)*
WBC x 10 <sup>3</sup> /mm <sup>3</sup>	7.9 ± 0.6 ( 10)	8.8 ± 0.9 ( 10)	9.5 ± 1.7 ( 10)*	8.3 ± 1.7 ( 10)	8.8 ± 1.4 ( 10)
PLT x 10 <sup>3</sup> /mm <sup>3</sup>	711 ± 162 ( 10)	659 ± 170 ( 10)	601 ± 137 ( 10)	640 ± 125 ( 10)	784 ± 181 ( 10)
1m Nx 10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)
Ma Nx 10 <sup>3</sup> /mm <sup>3</sup>	1.8 ± 0.4 ( 10)	2.0 ± 0.5 ( 10)	2.2 ± 0.9 ( 10)	1.6 ± 0.7 ( 10)	2.0 ± 1.0 ( 10)
Lym x 10 <sup>3</sup> /mm <sup>3</sup>	5.9 ± 0.8 ( 10)	6.6 ± 1.1 ( 10)	7.1 ± 0.9 ( 10)	6.4 ± 1.7 ( 10)	6.7 ± 1.7 ( 10)
Mon x 10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.0 ( 10)
Eos x 10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.2 ± 0.2 ( 10)	0.2 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)
Bas x 10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)
NRBC/100 wbc	0 ± 1 ( 10)	1 ± 1 ( 10)	0 ± 1 ( 10)	0 ± 1 ( 10)	1 ± 2 ( 10)
RETIC %rbc	1.7 ± 0.3 ( 10)	1.8 ± 0.3 ( 10)	1.6 ± 0.6 ( 10)	1.6 ± 0.4 ( 10)	2.3 ± 0.4 ( 10)*
METHGB g/dl	0.543 ± 0.141 ( 10)	0.646 ± 0.122 ( 10)	0.600 ± 0.107 ( 10)	0.701 ± 0.149 ( 10)*	0.697 ± 0.134 ( 10)*
% METHGB	3.167 ± 0.829 ( 10)	3.848 ± 0.740 ( 10)	3.547 ± 0.633 ( 10)	4.174 ± 0.793 ( 10)*	4.649 ± 0.807 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 14

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE HEMATOLOGY VALUES - TEST WEEK 26  
[MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	42.7 ± 1.3 ( 10)	41.4 ± 1.4 ( 9)	42.5 ± 1.6 ( 10)	43.1 ± 1.0 ( 10)	39.1 ± 1.6 ( 10)*
HGB g/dl	16.10 ± 0.66 ( 10)	15.76 ± 0.67 ( 9)	15.97 ± 0.66 ( 10)	16.02 ± 0.44 ( 10)	14.28 ± 0.72 ( 10)*
MCV x Um <sup>3</sup>	53 ± 1 ( 10)	53 ± 1 ( 9)	53 ± 1 ( 10)	52 ± 0 ( 10)*	52 ± 1 ( 10)*
MCH pg	21.6 ± 0.8 ( 10)	21.8 ± 0.6 ( 9)	21.3 ± 0.5 ( 10)	20.9 ± 0.4 ( 10)*	20.9 ± 0.5 ( 10)*
MCHC g/dl	40.3 ± 1.6 ( 10)	40.8 ± 1.1 ( 9)	40.3 ± 0.6 ( 10)	39.7 ± 0.7 ( 10)	39.5 ± 0.8 ( 10)
RBC x10 <sup>6</sup> /mm <sup>3</sup>	7.95 ± 0.27 ( 10)	7.69 ± 0.31 ( 9)	7.98 ± 0.36 ( 10)	8.12 ± 0.22 ( 10)	7.34 ± 0.33 ( 10)*
WBC x10 <sup>3</sup> /mm <sup>3</sup>	5.5 ± 1.1 ( 9)	5.5 ± 0.8 ( 5)	4.9 ± 0.7 ( 8)	5.8 ± 1.0 ( 9)	6.3 ± 2.3 ( 10)
PLT x10 <sup>3</sup> /mm <sup>3</sup>	726 ± 229 ( 10)	623 ± 247 ( 9)	651 ± 199 ( 10)	718 ± 234 ( 10)	800 ± 168 ( 10)
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 5)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	1.2 ± 0.8 ( 9)	1.1 ± 0.5 ( 5)	0.9 ± 0.2 ( 8)	1.1 ± 0.4 ( 9)	1.2 ± 0.4 ( 10)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	4.2 ± 0.9 ( 9)	4.3 ± 0.8 ( 5)	4.0 ± 0.7 ( 8)	4.6 ± 1.0 ( 9)	5.0 ± 2.0 ( 10)
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 5)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.1 ± 0.1 ( 5)	0.0 ± 0.1 ( 8)	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 5)	0.0 ± 0.0 ( 8)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
NRBC/100 wbc	1 ± 1 ( 10)	1 ± 1 ( 9)	1 ± 1 ( 10)	1 ± 1 ( 10)	1 ± 2 ( 10)
RETIC %rbc	1.6 ± 0.4 ( 10)	1.6 ± 0.4 ( 9)	1.5 ± 0.3 ( 10)	1.8 ± 0.7 ( 10)	2.0 ± 0.6 ( 10)
METHGB g/dl	0.624 ± 0.157 ( 10)	0.586 ± 0.182 ( 9)	0.680 ± 0.074 ( 10)	0.588 ± 0.187 ( 10)	0.669 ± 0.125 ( 10)
% METHGB	3.739 ± 0.973 ( 10)	3.578 ± 1.086 ( 9)	4.086 ± 0.429 ( 10)	3.545 ± 1.143 ( 10)	4.474 ± 0.823 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 15

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE HEMATOLOGY VALUES - TEST WEEK 52  
[MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	44.5 ± 1.9 ( 10)	43.6 ± 2.7 ( 10)	42.8 ± 2.2 ( 10)	42.2 ± 0.9 ( 10)*	40.2 ± 2.0 ( 10)*
HGB g/dl	17.07 ± 0.23 ( 10)	16.94 ± 0.33 ( 10)	16.40 ± 0.56 ( 10)*	16.31 ± 0.40 ( 10)*	14.90 ± 0.66 ( 10)*
MCV x Um <sup>3</sup>	49 ± 3 ( 10)	48 ± 2 ( 10)	48 ± 3 ( 10)	47 ± 1 ( 10)	47 ± 1 ( 9)
MCH pg	18.5 ± 0.2 ( 10)	18.6 ± 0.4 ( 10)	18.4 ± 0.4 ( 10)	18.3 ± 0.6 ( 10)	17.9 ± 0.6 ( 10)*
MCHC g/dl	38.6 ± 1.8 ( 10)	39.3 ± 2.0 ( 10)	38.9 ± 2.0 ( 10)	39.4 ± 1.0 ( 10)	38.8 ± 1.0 ( 9)
RBC x10 <sup>6</sup> /mm <sup>3</sup>	9.19 ± 0.17 ( 10)	9.13 ± 0.25 ( 10)	9.01 ± 0.35 ( 10)	9.01 ± 0.23 ( 10)	8.53 ± 0.34 ( 10)*
WBC x10 <sup>3</sup> /mm <sup>3</sup>	7.5 ± 0.6 ( 10)	7.7 ± 1.2 ( 10)	7.9 ± 1.2 ( 9)	7.8 ± 0.8 ( 10)	8.9 ± 1.1 ( 9)*
PLT x10 <sup>3</sup> /mm <sup>3</sup>	565 ± 70 ( 10)	494 ± 125 ( 10)	681 ± 189 ( 10)	652 ± 130 ( 10)	753 ± 245 ( 10)*
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	1.5 ± 0.5 ( 10)	1.6 ± 0.3 ( 10)	1.7 ± 0.8 ( 9)	1.7 ± 0.5 ( 10)	1.5 ± 0.5 ( 9)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	5.7 ± 0.8 ( 10)	5.9 ± 1.1 ( 10)	6.0 ± 0.8 ( 9)	5.8 ± 0.9 ( 10)	7.3 ± 1.4 ( 9)*
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.2 ± 0.2 ( 10)	0.1 ± 0.1 ( 9)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)
NRBC/100 wbc	0 ± 1 ( 10)	0 ± 1 ( 10)	0 ± 0 ( 10)	1 ± 2 ( 10)	1 ± 1 ( 10)
RETIC %rbc	1.6 ± 0.4 ( 9)	1.6 ± 0.6 ( 10)	1.4 ± 0.5 ( 10)	1.4 ± 0.8 ( 9)	2.7 ± 0.8 ( 10)*
METHGB g/dl	0.179 ±0.138 ( 10)	0.261 ±0.110 ( 10)	0.322 ±0.131 ( 10)	0.395 ±0.169 ( 10)*	0.558 ±0.333 ( 10)*
% METHGB	1.037 ±0.796 ( 10)	1.517 ±0.637 ( 10)	1.928 ±0.787 ( 10)	2.357 ±0.990 ( 10)*	3.632 ±2.205 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 16

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 FEMALE HEMATOLOGY VALUES - TEST WEEK 52  
 [MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	41.8 ± 0.7 ( 10)	42.5 ± 0.9 ( 10)	43.6 ± 2.7 ( 10)*	42.8 ± 1.4 ( 10)	39.2 ± 1.7 ( 10)*
HGB g/dl	16.53 ± 0.56 ( 10)	16.99 ± 0.36 ( 10)	16.97 ± 0.81 ( 10)	16.64 ± 0.79 ( 10)	14.80 ± 0.69 ( 10)*
MCV x Um <sup>3</sup>	52 ± 2 ( 10)	52 ± 1 ( 10)	53 ± 2 ( 10)	52 ± 1 ( 10)	52 ± 1 ( 10)
MCH pg	20.7 ± 0.6 ( 10)	20.4 ± 0.2 ( 10)	20.5 ± 0.5 ( 10)	20.2 ± 0.5 ( 10)*	20.0 ± 0.4 ( 10)*
MCHC g/dl	40.0 ± 1.0 ( 10)	40.2 ± 0.6 ( 10)	39.4 ± 2.0 ( 10)	39.4 ± 1.1 ( 10)	38.5 ± 1.3 ( 10)*
RBC x10 <sup>6</sup> /mm <sup>3</sup>	8.01 ± 0.24 ( 10)	8.28 ± 0.15 ( 10)	8.28 ± 0.42 ( 10)	8.29 ± 0.27 ( 10)	7.49 ± 0.33 ( 10)*
WBC x10 <sup>3</sup> /mm <sup>3</sup>	5.0 ± 0.6 ( 10)	4.7 ± 0.4 ( 9)	5.5 ± 1.4 ( 10)	4.9 ± 0.9 ( 10)	5.2 ± 1.0 ( 8)
PLT x10 <sup>3</sup> /mm <sup>3</sup>	516 ± 90 ( 10)	563 ± 131 ( 10)	669 ± 160 ( 10)	473 ± 185 ( 10)	773 ± 197 ( 10)*
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 8)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	0.9 ± 0.5 ( 10)	0.8 ± 0.1 ( 9)	1.3 ± 0.9 ( 10)	0.9 ± 0.3 ( 10)	0.9 ± 0.3 ( 8)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	4.0 ± 0.6 ( 10)	3.8 ± 0.4 ( 9)	4.0 ± 0.7 ( 10)	3.9 ± 0.8 ( 10)	4.2 ± 1.0 ( 8)
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.1 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 8)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 10)	0.0 ± 0.1 ( 8)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 8)
NRBC/100 wbc	1 ± 1 ( 10)	1 ± 1 ( 10)	1 ± 1 ( 10)	0 ± 0 ( 10)*	1 ± 2 ( 10)
RETIC %rbc	1.6 ± 0.5 ( 10)	1.6 ± 0.5 ( 10)	0.9 ± 0.3 ( 10)*	1.6 ± 0.6 ( 10)	2.5 ± 0.6 ( 10)*
METHGB g/dl	0.255 ± 0.179 ( 10)	0.199 ± 0.142 ( 10)	0.270 ± 0.176 ( 10)	0.312 ± 0.199 ( 10)	0.385 ± 0.200 ( 10)
% METHGB	1.527 ± 1.068 ( 10)	1.159 ± 0.831 ( 10)	1.576 ± 1.029 ( 10)	1.866 ± 1.235 ( 10)	2.552 ± 1.399 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 17

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 MALE HEMATOLOGY VALUES - TEST WEEK 78  
 [MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	43.8 ± 4.4 ( 10)	43.9 ± 4.7 ( 10)	41.0 ± 8.4 ( 10)	41.4 ± 2.6 ( 9)	41.1 ± 1.8 ( 10)
HGB g/dl	16.35 ± 1.76 ( 10)	16.50 ± 2.02 ( 10)	15.12 ± 3.65 ( 10)	15.18 ± 1.17 ( 9)	14.59 ± 0.56 ( 10)
MCV x Um <sup>3</sup>	51 ± 5 ( 10)	49 ± 1 ( 10)	56 ± 15 ( 10)	51 ± 3 ( 9)	49 ± 1 ( 10)
MCH pg	19.9 ± 1.8 ( 10)	19.3 ± 0.9 ( 10)	22.0 ± 6.1 ( 10)	19.5 ± 0.9 ( 9)	18.7 ± 0.6 ( 10)
MCHC g/dl	38.5 ± 1.1 ( 10)	38.8 ± 1.2 ( 10)	38.5 ± 1.3 ( 10)	38.2 ± 0.9 ( 9)	37.6 ± 1.1 ( 10)
RBC x10 <sup>6</sup> /mm <sup>3</sup>	8.46 ± 1.34 ( 10)	8.70 ± 1.09 ( 10)	7.63 ± 2.15 ( 10)	8.01 ± 0.75 ( 9)	8.14 ± 0.37 ( 10)
WBC x10 <sup>3</sup> /mm <sup>3</sup>	7.2 ± 1.5 ( 10)	6.7 ± 0.7 ( 9)	8.3 ± 3.6 ( 10)	7.6 ± 1.8 ( 9)	8.0 ± 1.0 ( 10)
PLT x10 <sup>3</sup> /mm <sup>3</sup>	564 ± 112 ( 10)	695 ± 162 ( 10)	644 ± 235 ( 10)	702 ± 124 ( 9)	876 ± 116 ( 10)*
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	2.3 ± 1.5 ( 10)	2.3 ± 0.7 ( 9)	1.9 ± 0.9 ( 10)	2.0 ± 1.5 ( 9)	2.5 ± 1.0 ( 10)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	4.6 ± 1.3 ( 10)	4.2 ± 0.8 ( 9)	6.1 ± 3.0 ( 10)	5.2 ± 0.7 ( 9)	5.3 ± 1.3 ( 10)
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.2 ± 0.2 ( 10)	0.2 ± 0.3 ( 9)	0.1 ± 0.1 ( 10)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
NRBC/100 wbc	5 ± 13 ( 10)	4 ± 11 ( 10)	3 ± 4 ( 10)	5 ± 11 ( 9)	2 ± 2 ( 10)
RETIC %rbc	0.9 ± 0.6 ( 10)	1.3 ± 1.2 ( 10)	1.0 ± 0.6 ( 9)	1.6 ± 0.6 ( 9)	1.4 ± 1.0 ( 10)
METHGB g/dl	0.127 ± 0.110 ( 10)	0.147 ± 0.145 ( 10)	0.323 ± 0.335 ( 10)	0.272 ± 0.122 ( 9)	0.500 ± 0.187 ( 10)*
%METHCB	0.805 ± 0.760 ( 10)	0.904 ± 0.912 ( 10)	3.148 ± 5.602 ( 10)	1.749 ± 0.768 ( 9)	3.319 ± 1.280 ( 10)

\* - SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- - NO AVAILABLE DATA

Table 18

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE HEMATOLOGY VALUES - TEST WEEK 78  
[MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	44.1 ± 1.2 ( 10)	44.3 ± 1.3 ( 10)	43.1 ± 5.2 ( 10)	43.9 ± 1.5 ( 10)	40.7 ± 1.3 ( 10)*
HGB g/dl	16.63 ± 0.58 ( 10)	16.60 ± 0.56 ( 10)	16.10 ± 2.11 ( 10)	16.27 ± 0.43 ( 10)	14.52 ± 0.38 ( 10)*
MCV x 10 <sup>3</sup>	54 ± 1 ( 10)	54 ± 1 ( 10)	56 ± 5 ( 10)	53 ± 1 ( 10)	54 ± 1 ( 10)
MCH pg	21.5 ± 0.4 ( 10)	21.4 ± 0.5 ( 10)	22.1 ± 2.2 ( 10)	21.0 ± 0.5 ( 10)	20.6 ± 0.7 ( 10)
MCHC g/dl	39.3 ± 1.1 ( 10)	39.0 ± 0.7 ( 10)	38.8 ± 0.6 ( 10)	38.7 ± 0.7 ( 10)	37.8 ± 0.9 ( 10)*
RBC x10 <sup>6</sup> /mm <sup>3</sup>	7.94 ± 0.29 ( 10)	7.97 ± 0.18 ( 10)	7.58 ± 1.43 ( 10)	7.98 ± 0.34 ( 10)	7.38 ± 0.27 ( 10)
WBC x10 <sup>3</sup> /mm <sup>3</sup>	4.5 ± 0.8 ( 10)	4.5 ± 0.7 ( 10)	5.1 ± 1.1 ( 10)	4.8 ± 1.1 ( 10)	5.7 ± 1.6 ( 10)*
PLT x10 <sup>3</sup> /mm <sup>3</sup>	642 ± 156 ( 10)	517 ± 181 ( 10)	650 ± 103 ( 10)	666 ± 118 ( 10)	825 ± 162 ( 10)*
Im N x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)
Mx N x10 <sup>3</sup> /mm <sup>3</sup>	1.2 ± 0.4 ( 10)	0.9 ± 0.3 ( 10)	1.4 ± 0.8 ( 10)	1.2 ± 0.6 ( 10)	1.3 ± 0.8 ( 10)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	3.2 ± 0.9 ( 10)	3.4 ± 0.6 ( 10)	3.6 ± 0.5 ( 10)	3.5 ± 0.6 ( 10)	4.3 ± 1.8 ( 10)*
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.1 ( 10)	0.0 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.0 ( 10)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.0 ( 10)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)
NRBC/100 wbc	1 ± 2 ( 10)	2 ± 2 ( 10)	4 ± 7 ( 10)	3 ± 3 ( 10)	1 ± 1 ( 10)
RETIC %rbc	0.9 ± 0.4 ( 10)	1.2 ± 0.6 ( 10)	0.9 ± 0.3 ( 9)	1.4 ± 0.9 ( 10)	1.6 ± 1.1 ( 10)
METHGB g/dl	0.294 ± 0.170 ( 10)	0.283 ± 0.161 ( 10)	0.251 ± 0.211 ( 10)	0.299 ± 0.145 ( 10)	0.500 ± 0.226 ( 10)*
%METHGB	1.738 ± 1.024 ( 10)	1.682 ± 0.971 ( 10)	1.575 ± 1.303 ( 10)	1.809 ± 0.894 ( 10)	3.326 ± 1.505 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 19

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE HEMATOLOGY VALUES - TEST WEEK 104  
[MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	43.3 ± 9.6 ( 10)	42.8 ± 3.8 ( 10)	43.2 ± 5.5 ( 10)	41.2 ± 5.3 ( 10)	33.9 ± 7.4 ( 10)*
HGB g/dl	15.79 ± 3.87 ( 10)	15.65 ± 1.46 ( 10)	15.53 ± 2.45 ( 10)	15.14 ± 2.17 ( 10)	11.65 ± 3.15 ( 10)*
MCV x 10 <sup>3</sup>	56 ± 12 ( 10)	52 ± 2 ( 10)	57 ± 12 ( 10)	52 ± 2 ( 10)	52 ± 5 ( 10)
MCH pg	21.1 ± 4.4 ( 10)	20.0 ± 0.9 ( 10)	21.2 ± 3.7 ( 10)	20.0 ± 0.6 ( 10)	19.0 ± 1.7 ( 10)
MCHC g/dl	37.4 ± 1.1 ( 10)	37.6 ± 0.4 ( 10)	37.1 ± 1.4 ( 10)	37.6 ± 0.5 ( 10)	35.7 ± 2.1 ( 10)*
RBC x10 <sup>6</sup> /mm <sup>3</sup>	8.05 ± 2.36 ( 10)	8.02 ± 1.00 ( 10)	7.73 ± 1.81 ( 10)	7.73 ± 1.15 ( 10)	6.34 ± 1.64 ( 10)*
WBC x10 <sup>3</sup> /mm <sup>3</sup>	16.7 ± 31.1 ( 10)	7.0 ± 2.1 ( 10)	10.6 ± 8.7 ( 10)	8.9 ± 3.3 ( 10)	10.1 ± 4.2 ( 9)
PLT x10 <sup>3</sup> /mm <sup>3</sup>	327 ± 127 ( 10)	292 ± 105 ( 10)	339 ± 80 ( 10)	380 ± 79 ( 10)	403 ± 135 ( 10)
Im Nx10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)
Ma Nx10 <sup>3</sup> /mm <sup>3</sup>	2.3 ± 0.9 ( 10)	2.5 ± 0.9 ( 10)	2.9 ± 1.6 ( 10)	3.4 ± 2.4 ( 10)	3.9 ± 3.2 ( 9)
Lym x10 <sup>3</sup> /mm <sup>3</sup>	14.2 ± 31.3 ( 10)	4.3 ± 1.6 ( 10)	7.5 ± 7.1 ( 10)	5.4 ± 1.6 ( 10)	6.1 ± 1.7 ( 9)
Mon x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)
Eos x10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 10)	0.1 ± 0.1 ( 9)
Bas x10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)
NRBC/100 wbc	4 ± 4 ( 10)	26 ± 70 ( 10)	6 ± 5 ( 10)	4 ± 6 ( 10)	5 ± 4 ( 10)
RETIC %rbc	1.3 ± 0.8 ( 10)	2.4 ± 2.2 ( 10)	2.4 ± 2.2 ( 10)	1.9 ± 1.3 ( 10)	3.6 ± 2.7 ( 8)*
METHGB g/dl	0.144 ±0.081 ( 10)	0.111 ±0.072 ( 10)	0.232 ±0.245 ( 10)	0.111 ±0.080 ( 10)	0.270 ±0.111 ( 10)
% METHGB	1.206 ±1.469 ( 10)	0.695 ±0.465 ( 10)	1.506 ±1.512 ( 10)	0.765 ±0.556 ( 10)	2.346 ±0.973 ( 10)*

\* - SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- - NO AVAILABLE DATA

Table 20

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 FEMALE HEMATOLOGY VALUES - TEST WEEK 104  
 [MEAN AND STANDARD DEVIATION (n)]

HEMATOLOGY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
HCT %	42.8 ± 2.1 ( 10)	40.2 ± 6.0 ( 10)	41.0 ± 5.4 ( 10)	41.4 ± 2.6 ( 10)	39.6 ± 2.4 ( 10)
HGB g/dl	15.91 ± 0.76 ( 10)	14.94 ± 2.70 ( 10)	15.12 ± 2.24 ( 10)	15.17 ± 1.06 ( 10)	14.02 ± 1.12 ( 10)*
MCV x 10 <sup>3</sup> um <sup>3</sup>	55 ± 1 ( 10)	55 ± 3 ( 10)	55 ± 2 ( 10)	54 ± 2 ( 10)	56 ± 8 ( 10)
MCH pg	21.2 ± 0.5 ( 10)	21.2 ± 0.9 ( 10)	21.3 ± 0.7 ( 10)	20.5 ± 0.9 ( 10)	21.1 ± 2.7 ( 10)
MCHC g/dl	38.3 ± 0.6 ( 10)	38.0 ± 1.8 ( 10)	38.2 ± 0.7 ( 10)	37.7 ± 0.5 ( 10)	36.8 ± 0.8 ( 10)*
RBC x 10 <sup>6</sup> /mm <sup>3</sup>	7.66 ± 0.44 ( 10)	7.15 ± 1.24 ( 10)	7.28 ± 1.15 ( 10)	7.53 ± 0.48 ( 10)	6.96 ± 1.04 ( 10)
WBC x 10 <sup>3</sup> /mm <sup>3</sup>	5.3 ± 0.6 ( 9)	7.8 ± 4.4 ( 9)	5.9 ± 1.6 ( 10)	6.5 ± 1.9 ( 9)	7.1 ± 3.7 ( 10)
PLT x 10 <sup>3</sup> /mm <sup>3</sup>	300 ± 81 ( 10)	326 ± 49 ( 10)	382 ± 108 ( 10)	311 ± 126 ( 10)	357 ± 64 ( 10)
Im Nx 10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
Ma Nx 10 <sup>3</sup> /mm <sup>3</sup>	1.4 ± 0.3 ( 9)	2.5 ± 2.0 ( 9)	1.8 ± 0.8 ( 10)	2.8 ± 2.3 ( 9)	1.9 ± 1.6 ( 10)
Lym x 10 <sup>3</sup> /mm <sup>3</sup>	3.7 ± 0.7 ( 9)	5.2 ± 3.3 ( 9)	3.9 ± 1.3 ( 10)	3.7 ± 1.1 ( 9)	5.1 ± 2.8 ( 10)
Mon x 10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 9)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 9)	0.0 ± 0.0 ( 10)
Eos x 10 <sup>3</sup> /mm <sup>3</sup>	0.1 ± 0.1 ( 9)	0.0 ± 0.1 ( 9)	0.1 ± 0.1 ( 10)	0.0 ± 0.1 ( 9)	0.0 ± 0.0 ( 10)*
Bas x 10 <sup>3</sup> /mm <sup>3</sup>	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)	0.0 ± 0.0 ( 9)	0.0 ± 0.0 ( 10)
NRBC/100 wbc	10 ± 17 ( 10)	7 ± 7 ( 10)	3 ± 3 ( 10)	3 ± 2 ( 10)	3 ± 2 ( 10)
RETIC %rbc	1.7 ± 0.8 ( 10)	2.3 ± 4.1 ( 9)	1.2 ± 0.8 ( 10)	1.3 ± 0.4 ( 10)	3.3 ± 5.0 ( 10)
METHGB g/dl	0.153 ± 0.128 ( 10)	0.086 ± 0.073 ( 10)	0.199 ± 0.191 ( 10)	0.149 ± 0.134 ( 10)	0.246 ± 0.129 ( 10)
% METHGB	0.955 ± 0.789 ( 10)	0.648 ± 0.634 ( 10)	1.472 ± 1.856 ( 10)	0.984 ± 0.905 ( 10)	1.723 ± 0.882 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 21

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE CLINICAL CHEMISTRY VALUES - TEST WEEK 14  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	97 ± 12 ( 10)	101 ± 16 ( 10)	100 ± 19 ( 10)	101 ± 17 ( 10)	100 ± 13 ( 10)
BUN mg/dl	16 ± 1 ( 10)	15 ± 2 ( 10)	16 ± 2 ( 10)	17 ± 2 ( 10)	17 ± 1 ( 10)
SAP1 IU/l	22 ± 4 ( 10)	22 ± 5 ( 10)	20 ± 8 ( 9)	20 ± 5 ( 9)	19 ± 7 ( 9)
TRIG mg/dl	127 ± 25 ( 10)	120 ± 31 ( 10)	138 ± 47 ( 10)	121 ± 49 ( 10)	142 ± 44 ( 10)
TPRO g/dl	6.4 ± 0.2 ( 10)	6.4 ± 0.1 ( 10)	6.5 ± 0.2 ( 10)	6.6 ± 0.3 ( 10)	7.1 ± 0.3 ( 10)*
ALB g/dl	4.2 ± 0.1 ( 10)	4.2 ± 0.1 ( 10)	4.3 ± 0.1 ( 10)	4.3 ± 0.2 ( 10)	4.5 ± 0.1 ( 10)*
CHOL mg/dl	65 ± 9 ( 10)	67 ± 7 ( 10)	70 ± 5 ( 10)	74 ± 8 ( 10)*	106 ± 10 ( 10)*
DBIL mg/dl	0.06 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)	0.06 ± 0.02 ( 10)	0.05 ± 0.02 ( 10)	0.07 ± 0.03 ( 10)
TBIL mg/dl	0.18 ± 0.03 ( 10)	0.17 ± 0.02 ( 10)	0.19 ± 0.04 ( 10)	0.17 ± 0.04 ( 10)	0.23 ± 0.07 ( 10)
CA mg/dl	10.1 ± 0.4 ( 10)	10.4 ± 0.8 ( 10)	10.3 ± 0.4 ( 10)	10.3 ± 0.5 ( 10)	10.6 ± 0.8 ( 10)
Na mMol/l	148 ± 5 ( 10)	148 ± 3 ( 10)	152 ± 7 ( 10)	151 ± 5 ( 10)	153 ± 6 ( 10)
K mMol/l	4.9 ± 0.3 ( 10)	5.1 ± 0.3 ( 10)	5.1 ± 0.3 ( 10)	5.2 ± 0.2 ( 10)	5.5 ± 0.5 ( 10)*
Cl Meq/l	108 ± 2 ( 10)	109 ± 2 ( 10)	109 ± 3 ( 10)	109 ± 2 ( 10)	109 ± 3 ( 10)
CPK IU/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
LDH IU/l	643 ± 332 ( 10)	685 ± 207 ( 10)	704 ± 228 ( 9)	672 ± 211 ( 10)	715 ± 242 ( 9)
A Phos IU/l	82 ± 8 ( 10)	79 ± 6 ( 10)	75 ± 9 ( 10)*	77 ± 7 ( 10)	66 ± 6 ( 10)*
GLOR g/dl	2.2 ± 0.1 ( 10)	2.2 ± 0.2 ( 10)	2.3 ± 0.1 ( 10)	2.3 ± 0.2 ( 10)	2.6 ± 0.2 ( 10)*
ALB/GLOR	2.0 ± 0.1 ( 10)	1.9 ± 0.2 ( 10)	1.9 ± 0.1 ( 10)	1.9 ± 0.1 ( 10)	1.8 ± 0.1 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 22

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE CLINICAL CHEMISTRY VALUES - TEST WEEK 14  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	90 ± 12 ( 10)	93 ± 13 ( 10)	83 ± 10 ( 10)	86 ± 11 ( 10)	94 ± 18 ( 10)
BUN mg/dl	16 ± 1 ( 10)	17 ± 2 ( 10)	17 ± 2 ( 10)	16 ± 3 ( 10)	16 ± 1 ( 10)
SGPT Iu/l	16 ± 2 ( 9)	18 ± 2 ( 9)	17 ± 3 ( 10)	17 ± 6 ( 10)	16 ± 3 ( 9)
TRIG mg/dl	43 ± 12 ( 10)	45 ± 8 ( 10)	57 ± 25 ( 10)	47 ± 19 ( 10)	45 ± 14 ( 10)
T PRO g/dl	6.3 ± 0.3 ( 10)	6.2 ± 0.3 ( 10)	6.3 ± 0.3 ( 10)	6.4 ± 0.3 ( 10)	6.5 ± 0.2 ( 10)
ALB g/dl	4.2 ± 0.1 ( 10)	4.1 ± 0.2 ( 10)	4.2 ± 0.2 ( 10)	4.3 ± 0.2 ( 10)	4.3 ± 0.1 ( 10)
CHOL mg/dl	113 ± 10 ( 10)	109 ± 11 ( 10)	114 ± 12 ( 10)	121 ± 14 ( 10)*	145 ± 13 ( 10)*
D BIL mg/dl	0.05 ± 0.02 ( 10)	0.05 ± 0.01 ( 10)	0.06 ± 0.02 ( 10)	0.05 ± 0.03 ( 10)	0.04 ± 0.00 ( 10)
T BIL mg/dl	0.16 ± 0.05 ( 10)	0.16 ± 0.02 ( 10)	0.18 ± 0.07 ( 10)	0.17 ± 0.07 ( 10)	0.15 ± 0.03 ( 10)
CA mg/dl	9.9 ± 0.3 ( 10)	9.9 ± 0.3 ( 10)	10.0 ± 0.4 ( 10)	10.2 ± 0.9 ( 10)	10.0 ± 0.4 ( 10)
Na mMol/l	150 ± 6 ( 10)	151 ± 6 ( 10)	150 ± 4 ( 10)	150 ± 4 ( 10)	151 ± 5 ( 10)
K mMol/l	5.1 ± 0.3 ( 10)	5.0 ± 0.4 ( 10)	5.1 ± 0.2 ( 10)	5.0 ± 0.3 ( 10)	5.1 ± 0.2 ( 10)
Cl Meq/l	112 ± 2 ( 10)	111 ± 3 ( 10)	111 ± 2 ( 10)	110 ± 2 ( 10)	112 ± 2 ( 10)
CPK Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
LDH Iu/l	559 ± 173 ( 10)	707 ± 256 ( 10)	763 ± 243 ( 10)	694 ± 242 ( 10)	592 ± 207 ( 10)
A Phos Iu/l	60 ± 6 ( 10)	68 ± 9 ( 10)	63 ± 9 ( 10)	65 ± 7 ( 10)	65 ± 9 ( 10)
GLOB g/dl	2.1 ± 0.2 ( 10)	2.0 ± 0.1 ( 10)	2.1 ± 0.2 ( 10)	2.1 ± 0.2 ( 10)	2.2 ± 0.1 ( 10)
ALB/GLOB	2.1 ± 0.2 ( 10)	2.1 ± 0.1 ( 10)	2.0 ± 0.2 ( 10)	2.1 ± 0.2 ( 10)	2.0 ± 0.1 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

---- = NO AVAILABLE DATA

Table 23

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE CLINICAL CHEMISTRY VALUES - TEST WEEK 26  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	105 ± 10 ( 10)	127 ± 20 ( 10)*	116 ± 15 ( 10)	118 ± 16 ( 10)	115 ± 18 ( 10)
BUN mg/dl	15 ± 1 ( 10)	16 ± 2 ( 10)	16 ± 1 ( 10)	18 ± 2 ( 10)*	16 ± 2 ( 10)
SGPT Iu/l	26 ± 4 ( 10)	36 ± 14 ( 10)*	31 ± 8 ( 10)	28 ± 12 ( 10)	23 ± 8 ( 10)
TRIG mg/dl	148 ± 33 ( 10)	165 ± 34 ( 10)	174 ± 58 ( 10)	158 ± 63 ( 10)	167 ± 32 ( 10)
T PRO g/dl	6.9 ± 0.2 ( 10)	6.9 ± 0.2 ( 10)	7.1 ± 0.2 ( 10)	7.2 ± 0.3 ( 10)*	7.5 ± 0.2 ( 10)*
ALB g/dl	4.6 ± 0.1 ( 10)	4.5 ± 0.1 ( 10)	4.6 ± 0.1 ( 10)	4.7 ± 0.2 ( 10)	4.9 ± 0.1 ( 10)*
CHOL mg/dl	66 ± 10 ( 10)	72 ± 14 ( 10)	81 ± 12 ( 10)*	83 ± 10 ( 10)*	112 ± 15 ( 10)*
D BIL mg/dl	0.07 ± 0.03 ( 10)	0.09 ± 0.05 ( 10)	0.08 ± 0.04 ( 10)	0.08 ± 0.03 ( 10)	0.10 ± 0.05 ( 10)
T BIL mg/dl	0.23 ± 0.07 ( 10)	0.25 ± 0.13 ( 10)	0.23 ± 0.08 ( 10)	0.24 ± 0.07 ( 10)	0.28 ± 0.11 ( 10)
CA mg/dl	10.2 ± 0.4 ( 10)	10.3 ± 0.4 ( 10)	10.3 ± 0.2 ( 10)	10.4 ± 0.5 ( 10)	10.5 ± 0.3 ( 10)
Na mMol/l	153 ± 3 ( 10)	154 ± 2 ( 10)	153 ± 3 ( 10)	153 ± 2 ( 10)	154 ± 3 ( 10)
K mMol/l	4.9 ± 0.3 ( 10)	4.9 ± 0.4 ( 10)	5.1 ± 0.4 ( 10)	5.0 ± 0.3 ( 10)	5.3 ± 0.5 ( 10)
Cl Meq/l	103 ± 1 ( 10)	103 ± 2 ( 10)	101 ± 2 ( 10)	101 ± 2 ( 10)	100 ± 2 ( 10)*
CPK Iu/l	447 ± 352 ( 10)	1493 ± 2255 ( 10)	681 ± 756 ( 10)	867 ± 832 ( 9)	1283 ± 1404 ( 10)
IDH Iu/l	558 ± 304 ( 10)	538 ± 324 ( 9)	701 ± 343 ( 10)	687 ± 277 ( 10)	676 ± 305 ( 9)
A Phos Iu/l	66 ± 7 ( 10)	68 ± 8 ( 10)	68 ± 10 ( 10)	69 ± 8 ( 10)	60 ± 9 ( 10)
GLUR g/dl	2.3 ± 0.1 ( 10)	2.4 ± 0.3 ( 10)	2.5 ± 0.2 ( 10)	2.4 ± 0.2 ( 10)	2.6 ± 0.2 ( 10)*
ALB/GLUB	2.0 ± 0.1 ( 10)	1.9 ± 0.3 ( 10)	1.9 ± 0.1 ( 10)	2.0 ± 0.2 ( 10)	1.9 ± 0.1 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 24

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE CLINICAL CHEMISTRY VALUES - TEST WEEK 26  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	101 ± 17 ( 10)	94 ± 14 ( 10)	93 ± 14 ( 10)	103 ± 18 ( 10)	105 ± 16 ( 10)
BUN mg/dl	16 ± 3 ( 10)	15 ± 3 ( 10)	17 ± 2 ( 10)	17 ± 2 ( 10)	17 ± 2 ( 10)
SGPT Iu/l	22 ± 14 ( 10)	18 ± 5 ( 10)	17 ± 4 ( 10)	18 ± 3 ( 10)	15 ± 5 ( 10)
TRIG mg/dl	50 ± 25 ( 10)	53 ± 19 ( 10)	65 ± 20 ( 10)	57 ± 18 ( 10)	53 ± 15 ( 10)
T PRO g/dl	7.1 ± 0.4 ( 10)	6.8 ± 0.5 ( 10)	7.1 ± 0.4 ( 10)	7.0 ± 0.3 ( 10)	7.1 ± 0.2 ( 10)
ALB g/dl	4.7 ± 0.2 ( 10)	4.6 ± 0.3 ( 10)	4.9 ± 0.2 ( 10)	4.8 ± 0.2 ( 10)	4.8 ± 0.1 ( 10)
CHOL mg/dl	112 ± 10 ( 10)	107 ± 9 ( 10)	114 ± 11 ( 10)	119 ± 10 ( 10)	140 ± 16 ( 10)*
D BIL mg/dl	0.05 ± 0.04 ( 10)	0.08 ± 0.04 ( 10)	0.06 ± 0.03 ( 10)	0.05 ± 0.02 ( 10)	0.06 ± 0.02 ( 10)
T BIL mg/dl	0.16 ± 0.08 ( 10)	0.23 ± 0.08 ( 10)*	0.19 ± 0.05 ( 10)	0.16 ± 0.05 ( 10)	0.18 ± 0.04 ( 10)
CA mg/dl	10.3 ± 0.3 ( 10)	10.1 ± 0.3 ( 10)	10.3 ± 0.4 ( 10)	10.2 ± 0.4 ( 10)	10.3 ± 0.4 ( 10)
Na mMol/l	152 ± 3 ( 10)	151 ± 3 ( 10)	153 ± 4 ( 10)	151 ± 2 ( 10)	153 ± 4 ( 10)
K mMol/l	4.7 ± 0.2 ( 10)	5.0 ± 0.3 ( 10)	4.7 ± 0.3 ( 10)	4.9 ± 0.3 ( 10)	5.0 ± 0.4 ( 10)*
Cl Meq/l	104 ± 2 ( 10)	104 ± 2 ( 10)	103 ± 3 ( 10)	103 ± 3 ( 10)	104 ± 3 ( 10)
CPK Iu/l	405 ± 371 ( 9)	1408 ± 1607 ( 10)	483 ± 309 ( 10)	967 ± 1348 ( 10)	833 ± 1512 ( 10)
LDH Iu/l	430 ± 315 ( 10)	665 ± 287 ( 10)	561 ± 148 ( 10)	516 ± 248 ( 10)	510 ± 233 ( 10)
A Phos Iu/l	55 ± 12 ( 10)	58 ± 16 ( 10)	62 ± 8 ( 10)	58 ± 10 ( 10)	58 ± 10 ( 10)
GLUB g/dl	2.3 ± 0.3 ( 10)	2.1 ± 0.3 ( 10)	2.2 ± 0.3 ( 10)	2.3 ± 0.2 ( 10)	2.3 ± 0.2 ( 10)
ALB/GLUB	2.1 ± 0.3 ( 10)	2.2 ± 0.2 ( 10)	2.3 ± 0.3 ( 10)	2.1 ± 0.2 ( 10)	2.2 ± 0.3 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 25

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE CLINICAL CHEMISTRY VALUES - TEST WEEK 52  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	117 ± 8 ( 10)	122 ± 14 ( 10)	126 ± 29 ( 10)	115 ± 9 ( 10)	118 ± 16 ( 10)
BUN mg/dl	14 ± 1 ( 10)	14 ± 2 ( 10)	13 ± 1 ( 10)	15 ± 3 ( 10)	16 ± 2 ( 10)
SGPT Iu/l	78 ± 21 ( 10)	97 ± 33 ( 10)	84 ± 24 ( 10)	74 ± 33 ( 10)	58 ± 13 ( 10)
TRIG mg/dl	120 ± 49 ( 10)	151 ± 59 ( 10)	189 ± 74 ( 10)*	139 ± 57 ( 10)	153 ± 28 ( 10)
T PRO g/dl	6.7 ± 0.2 ( 10)	6.8 ± 0.2 ( 10)	6.9 ± 0.3 ( 10)	6.9 ± 0.3 ( 10)	7.1 ± 0.2 ( 10)*
ALB g/dl	4.0 ± 0.2 ( 10)	4.1 ± 0.1 ( 10)	4.1 ± 0.2 ( 10)	4.1 ± 0.2 ( 10)	4.1 ± 0.2 ( 10)
CHOL mg/dl	86 ± 11 ( 10)	98 ± 18 ( 10)	109 ± 16 ( 10)*	116 ± 27 ( 10)*	132 ± 17 ( 10)*
D BIL mg/dl	0.05 ± 0.01 ( 10)	0.07 ± 0.02 ( 10)	0.07 ± 0.03 ( 10)	0.06 ± 0.02 ( 10)	0.06 ± 0.02 ( 10)
T BIL mg/dl	0.16 ± 0.04 ( 10)	0.20 ± 0.03 ( 10)	0.21 ± 0.07 ( 10)	0.18 ± 0.04 ( 10)	0.21 ± 0.03 ( 10)*
CA mg/dl	10.6 ± 0.4 ( 10)	10.8 ± 0.4 ( 10)	10.7 ± 0.4 ( 10)	10.7 ± 0.4 ( 10)	10.8 ± 0.2 ( 10)
Na mMol/l	144 ± 3 ( 10)	145 ± 3 ( 10)	145 ± 5 ( 10)	143 ± 5 ( 10)	144 ± 3 ( 10)
K mMol/l	4.6 ± 0.3 ( 10)	4.8 ± 0.3 ( 10)	4.8 ± 0.3 ( 10)	4.8 ± 0.4 ( 10)	4.8 ± 0.3 ( 10)
Cl MMol/l	109 ± 2 ( 10)	109 ± 4 ( 9)	109 ± 2 ( 10)	108 ± 2 ( 10)	107 ± 2 ( 10)
CPK Iu/l	247 ± 195 ( 10)	211 ± 117 ( 8)	273 ± 146 ( 10)	210 ± 116 ( 9)	459 ± 419 ( 7)
LDH Iu/l	373 ± 132 ( 6)	225 ± 53 ( 5)	358 ± 142 ( 7)	255 ± 109 ( 7)	364 ± 153 ( 7)
ALPUS Iu/l	57 ± 5 ( 3)	63 ± 4 ( 3)	65 ± 8 ( 4)	57 ± 2 ( 3)	56 ± 4 ( 4)
GLOB g/dl	2.6 ± 0.1 ( 10)	2.7 ± 0.2 ( 10)	2.8 ± 0.2 ( 10)	2.8 ± 0.2 ( 10)	2.9 ± 0.2 ( 10)*
ALB/GLOB	1.6 ± 0.1 ( 10)	1.5 ± 0.1 ( 10)	1.5 ± 0.2 ( 10)	1.5 ± 0.1 ( 10)	1.4 ± 0.1 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 26

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE CLINICAL CHEMISTRY VALUES - TEST WEEK 52  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	101 ± 13 ( 10)	95 ± 14 ( 10)	96 ± 14 ( 10)	101 ± 14 ( 10)	99 ± 12 ( 10)
BUN mg/dl	15 ± 2 ( 10)	16 ± 4 ( 10)	17 ± 4 ( 10)	15 ± 3 ( 10)	18 ± 3 ( 10)*
SGPT IU/l	45 ± 10 ( 10)	46 ± 9 ( 10)	49 ± 13 ( 10)	44 ± 8 ( 10)	42 ± 13 ( 10)
TRIG mg/dl	61 ± 24 ( 10)	70 ± 31 ( 10)	77 ± 39 ( 10)	48 ± 13 ( 10)	58 ± 16 ( 10)
T PRO g/dl	7.0 ± 0.3 ( 10)	7.1 ± 0.3 ( 10)	7.3 ± 0.4 ( 10)	7.2 ± 0.4 ( 10)	7.5 ± 0.5 ( 10)*
ALB g/dl	4.5 ± 0.2 ( 10)	4.5 ± 0.2 ( 10)	4.7 ± 0.3 ( 10)	4.6 ± 0.3 ( 10)	4.6 ± 0.3 ( 10)
CHOL mg/dl	125 ± 15 ( 10)	129 ± 22 ( 10)	132 ± 17 ( 10)	143 ± 21 ( 10)	170 ± 21 ( 10)*
D BIL mg/dl	0.04 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)	0.05 ± 0.02 ( 10)	0.04 ± 0.02 ( 10)	0.04 ± 0.01 ( 10)
T BIL mg/dl	0.15 ± 0.10 ( 10)	0.15 ± 0.02 ( 10)	0.16 ± 0.03 ( 10)	0.14 ± 0.04 ( 10)	0.14 ± 0.02 ( 10)
CA mg/dl	10.5 ± 0.5 ( 10)	10.7 ± 0.4 ( 10)	10.8 ± 0.4 ( 10)	10.7 ± 0.4 ( 10)	10.9 ± 0.3 ( 10)
Na mMol/l	142 ± 4 ( 10)	143 ± 4 ( 10)	144 ± 4 ( 10)	143 ± 5 ( 10)	142 ± 4 ( 10)
K mMol/l	4.5 ± 0.4 ( 10)	4.8 ± 0.5 ( 10)	4.7 ± 0.4 ( 10)	4.6 ± 0.2 ( 10)	4.6 ± 0.4 ( 10)
Cl Meq/l	109 ± 3 ( 10)	108 ± 2 ( 9)	109 ± 3 ( 10)	109 ± 3 ( 10)	109 ± 3 ( 10)
CPK IU/l	210 ± 168 ( 9)	183 ± 111 ( 9)	210 ± 128 ( 7)	184 ± 62 ( 8)	302 ± 208 ( 9)
LDH IU/l	190 ± 109 ( 7)	253 ± 120 ( 8)	252 ± 56 ( 6)	201 ± 74 ( 7)	211 ± 82 ( 6)
A Phos IU/l	38 ± 7 ( 3)	39 ± 6 ( 3)	37 ± 3 ( 3)	44 ± 7 ( 4)	53 ± 16 ( 3)
GLUB g/dl	2.5 ± 0.1 ( 10)	2.6 ± 0.2 ( 10)	2.6 ± 0.3 ( 10)	2.7 ± 0.2 ( 10)	2.9 ± 0.3 ( 10)*
ALB/GLUB	1.8 ± 0.1 ( 10)	1.7 ± 0.2 ( 10)	1.8 ± 0.2 ( 10)	1.7 ± 0.1 ( 10)	1.6 ± 0.1 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 27

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE CLINICAL CHEMISTRY VALUES - TEST WEEK 78  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	122 ± 18 ( 10)	118 ± 15 ( 10)	121 ± 11 ( 10)	113 ± 17 ( 10)	109 ± 14 ( 10)
BUN mg/dl	14 ± 2 ( 10)	14 ± 2 ( 10)	16 ± 7 ( 10)	16 ± 3 ( 10)	17 ± 2 ( 10)
SGPT Iu/l	52 ± 28 ( 10)	43 ± 16 ( 10)	74 ± 90 ( 10)	38 ± 7 ( 10)	32 ± 6 ( 10)
TRIG mg/dl	199 ± 60 ( 10)	223 ± 120 ( 10)	271 ± 207 ( 10)	216 ± 93 ( 10)	211 ± 78 ( 10)
T PRO g/dl	6.6 ± 0.6 ( 10)	6.8 ± 0.3 ( 10)	6.6 ± 0.5 ( 10)	6.7 ± 0.3 ( 10)	6.7 ± 0.4 ( 10)
ALB g/dl	4.0 ± 0.3 ( 10)	4.1 ± 0.2 ( 10)	4.0 ± 0.3 ( 10)	4.1 ± 0.3 ( 10)	4.0 ± 0.2 ( 10)
CHOL mg/dl	136 ± 33 ( 10)	168 ± 41 ( 10)	181 ± 66 ( 10)*	176 ± 44 ( 10)	185 ± 31 ( 10)*
D BIL mg/dl	0.10 ± 0.03 ( 10)	0.11 ± 0.05 ( 10)	0.29 ± 0.58 ( 10)	0.10 ± 0.04 ( 10)	0.09 ± 0.02 ( 10)
T BIL mg/dl	0.31 ± 0.20 ( 10)	0.28 ± 0.06 ( 10)	1.04 ± 2.37 ( 10)	0.29 ± 0.06 ( 10)	0.26 ± 0.04 ( 10)
CA mg/dl	10.5 ± 0.6 ( 10)	10.6 ± 0.4 ( 10)	10.6 ± 0.5 ( 10)	10.6 ± 0.4 ( 10)	10.5 ± 0.6 ( 10)
Na mMol/l	145 ± 2 ( 10)	146 ± 3 ( 10)	147 ± 5 ( 10)	145 ± 2 ( 10)	146 ± 4 ( 10)
K mMol/l	4.6 ± 0.3 ( 10)	4.7 ± 0.4 ( 10)	4.5 ± 0.3 ( 10)	4.8 ± 0.3 ( 10)	4.7 ± 0.5 ( 10)
Cl Meq/l	103 ± 4 ( 10)	104 ± 3 ( 10)	105 ± 4 ( 10)	104 ± 3 ( 10)	103 ± 4 ( 10)
CPK Iu/l	286 ± 608 ( 10)	206 ± 194 ( 10)	382 ± 677 ( 10)	350 ± 277 ( 10)	184 ± 137 ( 10)
LDH Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
A Phos Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
GLOB g/dl	2.6 ± 0.3 ( 10)	2.8 ± 0.4 ( 10)	2.6 ± 0.3 ( 10)	2.6 ± 0.3 ( 10)	2.7 ± 0.3 ( 10)
ALB/GLOB	1.5 ± 0.2 ( 10)	1.5 ± 0.3 ( 10)	1.6 ± 0.2 ( 10)	1.6 ± 0.2 ( 10)	1.5 ± 0.2 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 28

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE CLINICAL CHEMISTRY VALUES - TEST WEEK 78  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	107 ± 11 ( 10)	120 ± 16 ( 10)	112 ± 18 ( 10)	113 ± 18 ( 10)	108 ± 18 ( 10)
BUN mg/dl	14 ± 2 ( 10)	14 ± 2 ( 10)	16 ± 3 ( 10)	15 ± 1 ( 10)	19 ± 2 ( 10)*
SGPT Iu/l	37 ± 6 ( 10)	34 ± 3 ( 10)	41 ± 10 ( 10)	34 ± 3 ( 10)	35 ± 5 ( 10)
TRIG mg/dl	126 ± 62 ( 10)	127 ± 75 ( 10)	102 ± 31 ( 10)	92 ± 23 ( 10)	84 ± 40 ( 10)
T PRO g/dl	7.0 ± 0.4 ( 10)	7.0 ± 0.3 ( 10)	7.0 ± 0.8 ( 10)	7.1 ± 0.3 ( 10)	7.7 ± 0.5 ( 10)*
ALB g/dl	4.6 ± 0.3 ( 10)	4.6 ± 0.2 ( 10)	4.6 ± 0.4 ( 10)	4.6 ± 0.2 ( 10)	4.9 ± 0.2 ( 10)*
CHOL mg/dl	136 ± 15 ( 10)	126 ± 17 ( 10)	132 ± 24 ( 10)	149 ± 12 ( 10)	188 ± 13 ( 10)*
D BIL mg/dl	0.08 ± 0.02 ( 10)	0.08 ± 0.04 ( 10)	0.07 ± 0.02 ( 10)	0.07 ± 0.02 ( 10)	0.06 ± 0.03 ( 10)
T BIL mg/dl	0.22 ± 0.06 ( 10)	0.22 ± 0.06 ( 10)	0.20 ± 0.05 ( 10)	0.20 ± 0.04 ( 10)	0.20 ± 0.05 ( 10)
CA mg/dl	10.4 ± 0.4 ( 10)	10.4 ± 0.5 ( 10)	10.4 ± 0.7 ( 10)	10.4 ± 0.5 ( 10)	10.9 ± 0.5 ( 10)
Na mMol/l	142 ± 2 ( 10)	143 ± 2 ( 10)	145 ± 5 ( 10)	144 ± 3 ( 10)	144 ± 3 ( 10)
K mMol/l	4.5 ± 0.2 ( 10)	4.4 ± 0.3 ( 10)	4.5 ± 0.3 ( 10)	4.5 ± 0.3 ( 10)	4.5 ± 0.3 ( 10)
Cl Meq/l	104 ± 3 ( 10)	104 ± 3 ( 10)	107 ± 8 ( 10)	103 ± 4 ( 10)	103 ± 3 ( 10)
CPK Iu/l	188 ± 175 ( 10)	281 ± 413 ( 10)	232 ± 99 ( 10)	197 ± 136 ( 10)	234 ± 440 ( 10)
LDH Iu/l	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)
A Phos Iu/l	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)	---- ± 0 ( 0)
GLOB g/dl	2.4 ± 0.3 ( 10)	2.4 ± 0.3 ( 10)	2.4 ± 0.4 ( 10)	2.5 ± 0.2 ( 10)	2.8 ± 0.3 ( 10)*
ALP/GLOB	2.0 ± 0.3 ( 10)	2.0 ± 0.3 ( 10)	1.9 ± 0.2 ( 10)	1.9 ± 0.2 ( 10)	1.8 ± 0.2 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 29

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE CLINICAL CHEMISTRY VALUES - TEST WEEK 104  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	108 ± 15 ( 9)	92 ± 21 ( 10)	97 ± 18 ( 10)	93 ± 20 ( 10)	99 ± 19 ( 10)
BUN mg/dl	18 ± 4 ( 9)	24 ± 14 ( 10)	31 ± 29 ( 10)	27 ± 13 ( 10)	41 ± 13 ( 10)*
S/GPT Iu/l	34 ± 7 ( 9)	54 ± 41 ( 10)	69 ± 80 ( 10)	38 ± 23 ( 10)	37 ± 20 ( 10)
TRIG mg/dl	174 ± 102 ( 9)	201 ± 186 ( 10)	177 ± 114 ( 10)	185 ± 137 ( 10)	339 ± 122 ( 10)*
T PRO g/dl	6.5 ± 0.4 ( 9)	6.5 ± 0.8 ( 10)	6.5 ± 0.5 ( 10)	6.4 ± 0.5 ( 10)	6.3 ± 0.3 ( 10)
ALB g/dl	3.8 ± 0.3 ( 9)	3.6 ± 0.4 ( 10)	3.6 ± 0.3 ( 10)	3.5 ± 0.3 ( 10)*	3.4 ± 0.2 ( 10)*
CHOL mg/dl	159 ± 29 ( 9)	226 ± 104 ( 10)	179 ± 48 ( 10)	212 ± 119 ( 10)	255 ± 127 ( 10)*
D BIL mg/dl	0.09 ± 0.03 ( 6)	0.10 ± 0.05 ( 7)	0.10 ± 0.02 ( 6)	0.11 ± 0.05 ( 7)	0.12 ± 0.04 ( 6)
T BIL mg/dl	0.23 ± 0.05 ( 6)	0.26 ± 0.08 ( 7)	0.29 ± 0.05 ( 6)	0.24 ± 0.07 ( 7)	0.26 ± 0.06 ( 6)
CA mg/dl	10.9 ± 0.5 ( 9)	10.9 ± 0.6 ( 10)	10.7 ± 0.3 ( 10)	10.8 ± 0.4 ( 10)	11.2 ± 0.5 ( 10)
Na mMol/l	142 ± 3 ( 9)	144 ± 4 ( 10)	145 ± 6 ( 10)	144 ± 3 ( 10)	145 ± 2 ( 10)
K mMol/l	4.7 ± 0.4 ( 9)	4.5 ± 0.4 ( 10)	4.8 ± 0.6 ( 10)	4.5 ± 0.3 ( 10)	4.7 ± 0.5 ( 10)
Cl Meq/l	109 ± 2 ( 9)	111 ± 3 ( 10)	112 ± 6 ( 10)	110 ± 3 ( 10)	112 ± 2 ( 10)
CPK Iu/l	108 ± 70 ( 9)	183 ± 220 ( 10)	270 ± 445 ( 10)	77 ± 64 ( 10)	163 ± 137 ( 10)
LDH Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
A Phos Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
CLOB g/dl	2.7 ± 0.2 ( 9)	2.9 ± 0.6 ( 10)	2.9 ± 0.4 ( 10)	2.9 ± 0.3 ( 10)	3.0 ± 0.4 ( 10)
ALB/GLOB	1.4 ± 0.1 ( 9)	1.3 ± 0.2 ( 10)	1.3 ± 0.2 ( 10)	1.2 ± 0.2 ( 10)*	1.2 ± 0.2 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 30

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE CLINICAL CHEMISTRY VALUES - TEST WEEK 104  
[MEAN AND STANDARD DEVIATION (n)]

CHEMISTRY VALUES	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
GLU mg/dl	110 ± 14 ( 10)	109 ± 21 ( 10)	117 ± 18 ( 10)	124 ± 13 ( 10)	112 ± 6 ( 10)
BUN mg/dl	15 ± 2 ( 10)	16 ± 3 ( 10)	15 ± 4 ( 10)	19 ± 9 ( 10)	22 ± 5 ( 10)*
SGPT Iu/l	41 ± 6 ( 10)	51 ± 19 ( 10)	46 ± 18 ( 10)	45 ± 19 ( 10)	41 ± 13 ( 10)
TRIG mg/dl	153 ± 90 ( 10)	149 ± 132 ( 10)	87 ± 31 ( 10)	70 ± 28 ( 10)*	77 ± 24 ( 10)*
T PRO g/dl	7.5 ± 0.6 ( 10)	7.5 ± 0.3 ( 10)	7.4 ± 0.6 ( 10)	7.4 ± 0.6 ( 10)	8.0 ± 0.3 ( 10)*
ALB g/dl	4.4 ± 0.3 ( 10)	4.6 ± 0.2 ( 10)	4.6 ± 0.4 ( 10)	4.5 ± 0.3 ( 10)	4.8 ± 0.3 ( 10)*
CHOL mg/dl	168 ± 58 ( 10)	135 ± 27 ( 10)	133 ± 32 ( 10)	145 ± 24 ( 10)	184 ± 32 ( 10)
D BIL mg/dl	0.08 ± 0.05 ( 7)	0.08 ± 0.05 ( 7)	0.06 ± 0.02 ( 7)	0.05 ± 0.01 ( 6)	0.05 ± 0.02 ( 7)
T BIL mg/dl	0.19 ± 0.08 ( 7)	0.20 ± 0.07 ( 7)	0.17 ± 0.06 ( 7)	0.15 ± 0.03 ( 6)	0.15 ± 0.02 ( 7)
CA mg/dl	10.9 ± 0.4 ( 10)	10.7 ± 0.4 ( 10)	10.9 ± 0.3 ( 10)	10.8 ± 0.4 ( 10)	11.4 ± 0.3 ( 10)*
Na mMol/l	141 ± 3 ( 10)	141 ± 3 ( 10)	142 ± 2 ( 10)	142 ± 1 ( 10)	142 ± 2 ( 10)
K mMol/l	4.3 ± 0.3 ( 10)	4.4 ± 0.4 ( 10)	4.6 ± 0.3 ( 10)	4.2 ± 0.6 ( 10)	4.5 ± 0.4 ( 10)
Cl Meq/l	108 ± 2 ( 10)	109 ± 2 ( 10)	110 ± 5 ( 10)	108 ± 3 ( 10)	109 ± 2 ( 10)
CPK Iu/l	131 ± 164 ( 10)	234 ± 353 ( 10)	403 ± 852 ( 10)	157 ± 121 ( 10)	108 ± 82 ( 10)
LDH Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
A Phos Iu/l	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)	----- ± 0 ( 0)
GLOB g/dl	3.0 ± 0.5 ( 10)	2.9 ± 0.3 ( 10)	2.8 ± 0.3 ( 10)	2.9 ± 0.4 ( 10)	3.2 ± 0.3 ( 10)
ALB/GLUB	1.5 ± 0.3 ( 10)	1.6 ± 0.2 ( 10)	1.6 ± 0.1 ( 10)	1.6 ± 0.2 ( 10)	1.5 ± 0.2 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 31

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 27  
[(g ORGAN WT / g BODY WT) x 100]  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.57 ± 0.04 ( 10)	0.55 ± 0.02 ( 10)	0.58 ± 0.02 ( 10)	0.57 ± 0.02 ( 10)	0.61 ± 0.03 ( 10)*
HEART	0.31 ± 0.03 ( 10)	0.30 ± 0.03 ( 10)	0.32 ± 0.03 ( 10)	0.31 ± 0.03 ( 10)	0.32 ± 0.03 ( 10)
KIDNEYS	0.66 ± 0.04 ( 10)	0.70 ± 0.04 ( 10)	0.70 ± 0.04 ( 10)*	0.72 ± 0.03 ( 10)*	0.80 ± 0.02 ( 10)*
ADRENALS	0.013 ± 0.004 ( 10)	0.013 ± 0.005 ( 10)	0.014 ± 0.003 ( 10)	0.015 ± 0.006 ( 10)	0.015 ± 0.005 ( 10)
LIVER	2.79 ± 0.15 ( 10)	3.00 ± 0.21 ( 10)*	2.93 ± 0.11 ( 10)	3.11 ± 0.18 ( 10)*	3.73 ± 0.21 ( 10)*
SPLEEN	0.21 ± 0.01 ( 10)	0.21 ± 0.02 ( 10)	0.22 ± 0.02 ( 10)	0.22 ± 0.02 ( 10)	0.29 ± 0.03 ( 10)*
GONADS	0.86 ± 0.06 ( 10)	0.83 ± 0.06 ( 10)	0.86 ± 0.04 ( 10)	0.85 ± 0.03 ( 10)	0.94 ± 0.04 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 32

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 27  
[(g ORGAN WT / g BODY WT) x 100]  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.98 ± 0.03 ( 10)	0.98 ± 0.05 ( 9)	1.00 ± 0.07 ( 10)	0.98 ± 0.04 ( 9)	1.05 ± 0.05 ( 10)*
HEART	0.35 ± 0.04 ( 10)	0.36 ± 0.03 ( 9)	0.36 ± 0.03 ( 10)	0.37 ± 0.02 ( 9)	0.39 ± 0.03 ( 10)*
KIDNEYS	0.74 ± 0.02 ( 10)	0.78 ± 0.04 ( 9)	0.78 ± 0.06 ( 10)	0.80 ± 0.03 ( 9)*	0.84 ± 0.06 ( 10)*
ADRENALS	0.025 ± 0.007 ( 10)	0.028 ± 0.010 ( 9)	0.030 ± 0.009 ( 10)	0.029 ± 0.009 ( 9)	0.030 ± 0.011 ( 10)
LIVER	2.80 ± 0.17 ( 9)	2.90 ± 0.17 ( 9)	2.83 ± 0.28 ( 10)	3.02 ± 0.19 ( 9)	3.32 ± 0.23 ( 10)*
SPLEEN	0.25 ± 0.01 ( 10)	0.25 ± 0.02 ( 9)	0.25 ± 0.03 ( 10)	0.25 ± 0.02 ( 9)	0.32 ± 0.05 ( 10)*
GONADS	0.05 ± 0.01 ( 10)	0.06 ± 0.01 ( 9)	0.06 ± 0.01 ( 10)	0.05 ± 0.01 ( 9)	0.06 ± 0.01 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 33

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 MALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 53  
 [(g ORGAN WT / g BODY WT) x 100]  
 [MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.50 ± 0.02 ( 10)	0.51 ± 0.02 ( 10)	0.52 ± 0.03 ( 10)	0.54 ± 0.04 ( 10)*	0.58 ± 0.03 ( 10)*
HEART	0.29 ± 0.02 ( 10)	0.29 ± 0.02 ( 10)	0.30 ± 0.02 ( 10)	0.29 ± 0.02 ( 10)	0.31 ± 0.02 ( 10)
KIDNEYS	0.69 ± 0.04 ( 10)	0.71 ± 0.03 ( 10)	0.74 ± 0.03 ( 10)*	0.78 ± 0.05 ( 10)*	0.82 ± 0.06 ( 10)*
ADRENALS	0.011 ± 0.001 ( 10)	0.012 ± 0.002 ( 10)	0.011 ± 0.001 ( 10)	0.012 ± 0.002 ( 10)	0.011 ± 0.001 ( 10)
LIVER	2.96 ± 0.22 ( 10)	2.96 ± 0.20 ( 10)	3.11 ± 0.17 ( 10)	3.21 ± 0.14 ( 10)*	3.84 ± 0.37 ( 10)*
SPLEEN	0.20 ± 0.01 ( 10)	0.21 ± 0.02 ( 10)	0.21 ± 0.01 ( 10)	0.21 ± 0.01 ( 10)*	0.32 ± 0.02 ( 10)*
GONADS	0.74 ± 0.06 ( 10)	0.76 ± 0.03 ( 10)	0.78 ± 0.02 ( 10)	0.81 ± 0.10 ( 10)*	0.88 ± 0.03 ( 10)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 34

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 53  
[(g ORGAN WT / g BODY WT) X 100]  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.85 ± 0.03 ( 10)	0.88 ± 0.07 ( 10)	0.86 ± 0.05 ( 10)	0.88 ± 0.07 ( 10)	0.98 ± 0.08 ( 10)*
HEART	0.34 ± 0.02 ( 10)	0.35 ± 0.03 ( 10)	0.35 ± 0.03 ( 10)	0.34 ± 0.02 ( 10)	0.38 ± 0.05 ( 10)*
KIDNEYS	0.76 ± 0.04 ( 10)	0.80 ± 0.04 ( 10)	0.79 ± 0.05 ( 10)	0.82 ± 0.05 ( 10)*	0.91 ± 0.07 ( 10)*
ADRENALS	0.023 ± 0.004 ( 10)	0.024 ± 0.004 ( 10)	0.023 ± 0.005 ( 10)	0.025 ± 0.004 ( 10)	0.025 ± 0.005 ( 10)
LIVER	2.79 ± 0.25 ( 10)	3.00 ± 0.15 ( 10)	2.93 ± 0.21 ( 10)	3.02 ± 0.18 ( 10)	3.59 ± 0.36 ( 10)*
SPLEEN	0.22 ± 0.02 ( 10)	0.24 ± 0.02 ( 10)	0.22 ± 0.01 ( 10)	0.23 ± 0.02 ( 10)	0.32 ± 0.03 ( 10)*
GONADS	0.04 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)	0.05 ± 0.01 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 35

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 105  
[(g ORGAN WT / g BODY WT) X 100]  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.59 ± 0.06 ( 32)	0.60 ± 0.06 ( 29)	0.58 ± 0.05 ( 26)	0.64 ± 0.10 ( 30)*	0.76 ± 0.12 ( 39)*
HEART	0.35 ± 0.04 ( 32)	0.37 ± 0.05 ( 29)	0.36 ± 0.07 ( 26)	0.41 ± 0.11 ( 30)*	0.43 ± 0.08 ( 39)*
KIDNEYS	0.89 ± 0.13 ( 32)	0.96 ± 0.16 ( 29)	0.98 ± 0.24 ( 26)	1.07 ± 0.30 ( 29)*	1.19 ± 0.21 ( 39)*
ADRENALS	0.018 ± 0.005 ( 32)	0.022 ± 0.015 ( 27)	0.019 ± 0.006 ( 25)	0.022 ± 0.009 ( 29)	0.024 ± 0.010 ( 38)
LIVER	3.75 ± 0.78 ( 30)	4.30 ± 1.67 ( 28)	3.93 ± 0.74 ( 24)	4.64 ± 1.07 ( 29)*	5.29 ± 0.88 ( 37)*
SPLEEN	0.96 ± 1.17 ( 32)	0.69 ± 0.59 ( 28)	0.55 ± 0.37 ( 26)*	0.90 ± 0.91 ( 29)	0.40 ± 0.07 ( 39)*
GONADS	----- ± 0.00 ( 0)	----- ± 0.00 ( 0)	----- ± 0.00 ( 0)	----- ± 0.00 ( 0)	----- ± 0.00 ( 0)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 36

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE MEAN RELATIVE ORGAN WEIGHTS - TEST WEEK 105  
[(g ORGAN WT / g BODY WT) X 100]  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BRAIN	0.69 ± 0.05 ( 36)	0.70 ± 0.05 ( 40)	0.71 ± 0.10 ( 40)	0.78 ± 0.13 ( 46)*	0.87 ± 0.07 ( 47)*
HEART	0.36 ± 0.05 ( 36)	0.37 ± 0.03 ( 40)	0.36 ± 0.07 ( 40)	0.39 ± 0.08 ( 46)*	0.40 ± 0.03 ( 47)*
KIDNEYS	0.77 ± 0.08 ( 36)	0.79 ± 0.05 ( 40)	0.81 ± 0.10 ( 40)	0.90 ± 0.16 ( 46)*	0.98 ± 0.14 ( 47)*
ADRENALS	0.023 ± 0.005 ( 36)	0.023 ± 0.004 ( 40)	0.023 ± 0.005 ( 40)	0.025 ± 0.007 ( 45)	0.025 ± 0.011 ( 47)
LIVER	3.23 ± 0.33 ( 36)	3.37 ± 0.54 ( 40)	3.35 ± 0.56 ( 40)	3.60 ± 0.81 ( 46)*	4.05 ± 0.37 ( 47)*
SPLEEN	0.33 ± 0.31 ( 36)	0.50 ± 0.56 ( 40)	0.43 ± 0.69 ( 40)	0.39 ± 0.48 ( 46)	0.36 ± 0.13 ( 46)
GONADS	0.04 ± 0.01 ( 36)	0.04 ± 0.01 ( 39)	0.04 ± 0.01 ( 39)	0.04 ± 0.01 ( 44)	0.05 ± 0.01 ( 46)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 37

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
MALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 27  
[MEAN AND STANDARD DEVIATION (n)]

ORGAN'S	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT.	362.5 ± 31.5 ( 10)	382.1 ± 20.8 ( 10)	368.0 ± 15.6 ( 10)	372.8 ± 15.4 ( 10)	338.0 ± 18.7 ( 10)*
BRAIN	2.05 ± 0.08 ( 10)	2.11 ± 0.06 ( 10)	2.12 ± 0.06 ( 10)	2.11 ± 0.05 ( 10)	2.06 ± 0.08 ( 10)
HEART	1.13 ± 0.11 ( 10)	1.16 ± 0.11 ( 10)	1.16 ± 0.11 ( 10)	1.14 ± 0.09 ( 10)	1.07 ± 0.10 ( 10)
KIDNEYS	2.41 ± 0.26 ( 10)	2.66 ± 0.16 ( 10)*	2.58 ± 0.20 ( 10)	2.69 ± 0.13 ( 10)*	2.71 ± 0.15 ( 10)*
ADRENALS	0.048 ± 0.011 ( 10)	0.050 ± 0.018 ( 10)	0.050 ± 0.013 ( 10)	0.054 ± 0.020 ( 10)	0.051 ± 0.016 ( 10)
LIVER	10.12 ± 1.08 ( 10)	11.46 ± 0.81 ( 10)*	10.78 ± 0.70 ( 10)	11.58 ± 0.75 ( 10)*	12.60 ± 1.04 ( 10)*
SPLEEN	0.75 ± 0.07 ( 10)	0.80 ± 0.08 ( 10)	0.80 ± 0.07 ( 10)	0.83 ± 0.07 ( 10)*	0.99 ± 0.09 ( 10)*
GONADS	3.10 ± 0.25 ( 10)	3.17 ± 0.28 ( 10)	3.16 ± 0.15 ( 10)	3.17 ± 0.11 ( 10)	3.18 ± 0.22 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 38

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
FEMALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 27  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT	197.4 ± 8.6 ( 10)	195.2 ± 13.6 ( 9)	192.9 ± 17.3 ( 10)	193.6 ± 7.6 ( 9)	181.1 ± 9.8 ( 10)*
BRAIN	1.92 ± 0.04 ( 10)	1.92 ± 0.06 ( 10)	1.91 ± 0.10 ( 10)	1.89 ± 0.10 ( 10)	1.90 ± 0.07 ( 10)
HEART	0.68 ± 0.07 ( 10)	0.70 ± 0.07 ( 10)	0.70 ± 0.07 ( 10)	0.71 ± 0.03 ( 10)	0.70 ± 0.05 ( 10)
KIDNEYS	1.47 ± 0.06 ( 10)	1.53 ± 0.10 ( 10)	1.49 ± 0.13 ( 10)	1.56 ± 0.08 ( 10)	1.53 ± 0.12 ( 10)
ADRENALS	0.049 ± 0.011 ( 10)	0.055 ± 0.017 ( 10)	0.057 ± 0.014 ( 10)	0.055 ± 0.015 ( 10)	0.054 ± 0.019 ( 10)
LIVER	5.52 ± 0.30 ( 9)	5.74 ± 0.53 ( 10)	5.42 ± 0.34 ( 10)	5.79 ± 0.37 ( 10)	6.01 ± 0.46 ( 10)*
SPLEEN	0.49 ± 0.03 ( 10)	0.50 ± 0.05 ( 10)	0.48 ± 0.05 ( 10)	0.48 ± 0.03 ( 10)	0.58 ± 0.07 ( 10)*
GONADS	0.11 ± 0.02 ( 10)	0.11 ± 0.02 ( 10)	0.11 ± 0.02 ( 10)	0.10 ± 0.02 ( 10)	0.10 ± 0.02 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 39

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 53  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT.	436.8 ± 22.9 ( 10)	425.9 ± 26.8 ( 10)	421.3 ± 18.8 ( 10)	396.5 ± 42.2 ( 10)*	368.9 ± 20.7 ( 10)*
BRAIN	2.20 ± 0.08 ( 10)	2.17 ± 0.10 ( 10)	2.18 ± 0.05 ( 10)	2.12 ± 0.11 ( 10)	2.12 ± 0.05 ( 10)
HEART	1.26 ± 0.07 ( 10)	1.22 ± 0.12 ( 10)	1.26 ± 0.11 ( 10)	1.16 ± 0.12 ( 10)	1.14 ± 0.10 ( 10)*
KIDNEYS	3.00 ± 0.24 ( 10)	3.03 ± 0.24 ( 10)	3.10 ± 0.18 ( 10)	3.10 ± 0.33 ( 10)	3.01 ± 0.24 ( 10)
ADRENALS	0.050 ± 0.005 ( 10)	0.050 ± 0.008 ( 10)	0.046 ± 0.006 ( 10)	0.048 ± 0.005 ( 10)	0.041 ± 0.004 ( 10)*
LIVER	12.96 ± 1.58 ( 10)	12.61 ± 1.22 ( 10)	13.09 ± 0.85 ( 10)	12.73 ± 1.39 ( 10)	14.17 ± 1.78 ( 10)
SPLEEN	0.86 ± 0.07 ( 10)	0.87 ± 0.08 ( 10)	0.87 ± 0.07 ( 10)	0.85 ± 0.08 ( 10)	1.17 ± 0.09 ( 10)*
GONADS	3.24 ± 0.21 ( 10)	3.24 ± 0.22 ( 10)	3.28 ± 0.13 ( 10)	3.17 ± 0.35 ( 10)	3.24 ± 0.18 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 40

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
FEMALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 53  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT.	231.1 ± 11.9 ( 10)	226.3 ± 22.2 ( 10)	226.0 ± 16.1 ( 10)	222.4 ± 22.1 ( 10)	196.2 ± 17.2 ( 10)*
BRAIN	1.97 ± 0.05 ( 10)	1.97 ± 0.07 ( 10)	1.93 ± 0.07 ( 10)	1.94 ± 0.05 ( 10)	1.91 ± 0.04 ( 10)*
HEART	0.79 ± 0.06 ( 10)	0.80 ± 0.09 ( 10)	0.78 ± 0.05 ( 10)	0.76 ± 0.08 ( 10)	0.73 ± 0.04 ( 10)
KIDNEYS	1.76 ± 0.15 ( 10)	1.81 ± 0.17 ( 10)	1.78 ± 0.18 ( 10)	1.81 ± 0.18 ( 10)	1.78 ± 0.08 ( 10)
ADRENALS	0.052 ± 0.008 ( 10)	0.053 ± 0.007 ( 10)	0.052 ± 0.012 ( 10)	0.055 ± 0.008 ( 10)	0.048 ± 0.007 ( 10)
LIVER	6.45 ± 0.61 ( 10)	6.77 ± 0.59 ( 10)	6.63 ± 0.73 ( 10)	6.71 ± 0.68 ( 10)	6.99 ± 0.41 ( 10)
SPLEEN	0.51 ± 0.05 ( 10)	0.55 ± 0.08 ( 10)	0.50 ± 0.03 ( 10)	0.52 ± 0.07 ( 10)	0.63 ± 0.05 ( 10)*
GONADS	0.10 ± 0.01 ( 10)	0.11 ± 0.02 ( 10)	0.10 ± 0.02 ( 10)	0.10 ± 0.01 ( 10)	0.10 ± 0.01 ( 10)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 41

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
MALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 105  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT.	383.7 ± 36.5 ( 32)	373.0 ± 37.7 ( 29)	391.4 ± 30.2 ( 26)	355.9 ± 47.6 ( 30)*	292.3 ± 41.6 ( 39)*
BRAIN	2.23 ± 0.10 ( 32)	2.23 ± 0.06 ( 29)	2.24 ± 0.07 ( 26)	2.22 ± 0.08 ( 30)	2.16 ± 0.09 ( 39)*
HEART	1.35 ± 0.13 ( 32)	1.38 ± 0.18 ( 29)	1.40 ± 0.23 ( 26)	1.43 ± 0.20 ( 30)	1.24 ± 0.15 ( 39)*
KIDNEYS	3.39 ± 0.38 ( 32)	3.56 ± 0.70 ( 29)	3.79 ± 0.69 ( 26)*	3.68 ± 0.70 ( 29)	3.43 ± 0.48 ( 39)
ADRENALS	0.069 ± 0.015 ( 32)	0.083 ± 0.058 ( 27)	0.073 ± 0.017 ( 25)	0.074 ± 0.020 ( 29)	0.067 ± 0.024 ( 38)
LIVER	14.31 ± 2.38 ( 30)	15.83 ± 5.23 ( 28)	15.23 ± 2.30 ( 24)	16.26 ± 3.26 ( 29)*	15.19 ± 1.93 ( 37)
SPLEEN	3.41 ± 3.72 ( 32)	2.56 ± 2.03 ( 28)	2.13 ± 1.39 ( 26)	3.08 ± 2.82 ( 29)	1.18 ± 0.31 ( 39)*
GONADS	---- ± 0.00 ( 0)	---- ± 0.00 ( 0)	---- ± 0.00 ( 0)	---- ± 0.00 ( 0)	---- ± 0.00 ( 0)

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

---- = NO AVAILABLE DATA

Table 42

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
: FEMALE MEAN ORGAN WEIGHTS (grams) - TEST WEEK 105  
[MEAN AND STANDARD DEVIATION (n)]

ORGANS	0.0 mg/kg/DAY	0.4 mg/kg/DAY	2.0 mg/kg/DAY	10.0 mg/kg/DAY	50.0 mg/kg/DAY
BODY WT.	288.1 ± 22.0 ( 36)	289.0 ± 20.8 ( 40)	289.5 ± 35.0 ( 40)	261.2 ± 35.9 ( 46)*	227.3 ± 21.1 ( 47)*
BRAIN	1.99 ± 0.08 ( 36)	2.01 ± 0.08 ( 40)	2.01 ± 0.14 ( 40)	1.99 ± 0.07 ( 46)	1.97 ± 0.07 ( 47)
HEART	1.03 ± 0.16 ( 36)	1.05 ± 0.09 ( 40)	1.04 ± 0.11 ( 40)	1.01 ± 0.13 ( 46)	0.91 ± 0.08 ( 47)*
KIDNEYS	2.22 ± 0.21 ( 36)	2.27 ± 0.19 ( 40)	2.31 ± 0.20 ( 40)	2.31 ± 0.19 ( 46)	2.22 ± 0.27 ( 47)
ADRENALS	0.067 ± 0.015 ( 36)	0.066 ± 0.012 ( 40)	0.066 ± 0.012 ( 40)	0.064 ± 0.014 ( 45)	0.058 ± 0.027 ( 47)*
LIVER	9.30 ± 1.03 ( 36)	9.77 ± 1.99 ( 40)	9.60 ± 1.49 ( 40)	9.26 ± 1.55 ( 46)	9.20 ± 1.20 ( 47)
SPLEEN	0.93 ± 0.83 ( 36)	1.46 ± 1.71 ( 40)	1.16 ± 1.48 ( 40)	0.95 ± 0.83 ( 46) *	0.83 ± 0.30 ( 46)
GONADS	0.13 ± 0.02 ( 36)	0.12 ± 0.03 ( 39)	0.12 ± 0.03 ( 39)	0.11 ± 0.03 ( 44)*	0.11 ± 0.02 ( 46)*

\* = SIGNIFICANTLY DIFFERENT FROM CONTROL GROUP

--- = NO AVAILABLE DATA

Table 43

TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT

SUMMARY OF 6 AND 12 MONTH KILL HISTOPATHOLOGIC LESIONS

Number of Animals Where Lesion Is Present

Dose (mg/kg/day)

Males

Females

	0.0	0.4	2.0	10.0	50.0	0.0	0.4	2.0	10.0	50.0
<b>6-Month Kill</b>										
Spleen										
Increased pigment	0	0	0	10	10	0(11)	0(11)	0	7	10
Increased extramedullary hematopoiesis	0	0	0	8	10	0(11)	0(11)	0	0	7
Kidneys										
Nuclear hypertrophy	0	0	10	10	10	0(11)	0(11)	0	10	10
Cytoplasmic bodies	0	0	10	10	10	0(11)	0(11)	0	0	0
Increased Pigment	0	0	0	0	0	0(11)	0(11)	0	10	10
<b>12-Month Kill</b>										
Spleen										
Increased pigment	0	0	0	10	10	0	0	3	8	10
Increased extramedullary hematopoiesis	0	1	0	0	9	3	1	0	0	9
Sinusoidal congestion	0	0	0	0	10	0	0	0	0	10
Kidneys										
Nuclear hypertrophy	0	0	10	10	10	0	0	8	10	10
Cytoplasmic bodies	0	0	10	10	10	0	0	0	0	0
Increased pigment	0	0	0	0	0	0	0	9	10	10

<sup>a</sup>

N=10 except where indicated by parentheses.

Table 44

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) in the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions for the  
Terminal Sacrificed Males and 12-24 Month MS/SD<sup>a</sup>

		DOSE (mg/kg/day)				
		0.0	0.4	2.0	10.0	50.0
<u>HEPATOCELLULAR HYPERPLASIA</u>						
TERMINAL SACRIFICE:						
PRESENT	6	7	6	16**	27**	
ABSENT	26	22	20	14	12	
MS/SD:						
PRESENT	3	3	1	7	7*	
ABSENT	19	22	27	17	9	
<u>SPLEEN = INCREASED PIGMENT</u>						
TERMINAL SACRIFICE:						
PRESENT	0	4*	3*	9**	36**	
ABSENT	32	25	23	21	3	
MS/SD:						
PRESENT	4	3	5	9	11**	
ABSENT	18	22	23	15	5	
<u>SPLEEN = CONGESTION</u>						
TERMINAL SACRIFICE:						
PRESENT	10	12	18**	10	29**	
ABSENT	22	17	8	20	10	
MS/SD:						
PRESENT	0	2	0	4*	0	
ABSENT	22	23	26	20	16	

<sup>a</sup> Moribund sacrifice or spontaneous death

\* P < 0.05

\*\* P < 0.01

Table 44 (contd)

Twenty-Four Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) in the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions for the  
Terminal Sacrificed Males and 12-24 Month MS/SD<sup>a</sup>

		DOSE (mg/kg/day)				
		0.0	0.4	2.0	10.0	50.0
<u>SPLEEN = MONOCYTIC LEUKEMIA</u>						
TERMINAL SACRIFICE:						
PRESENT	22	15	8**	19	1**	
ABSENT	10	14	18	11	38	
MS/SD:						
PRESENT	11	11	11	14	2*	
ABSENT	11	14	17	10	14	
<u>SPLEEN = INCREASED EXTRAMEDULLARY HEMATOPOIESIS</u>						
TERMINAL SACRIFICE:						
PRESENT	0	1	1	5*	22**	
ABSENT	32	28	25	25	17	
<u>KIDNEYS = INCREASED RENAL PIGMENT</u>						
TERMINAL SACRIFICE:						
PRESENT	14	13	8	29**	39**	
ABSENT	18	16	18	1	0	
MS/SD:						
PRESENT	8	7	7	18**	11*	
ABSENT	14	18	21	6	5	
<u>KIDNEYS = INELAMMATION. LYMPHOCYTIC</u>						
TERMINAL SACRIFICE:						
PRESENT	31	27	26	29	39	
ABSENT	1	2	0	1	0	
MS/SD:						
PRESENT	14	8	20	21	16**	
ABSENT	8	17	8	3	0	

<sup>a</sup> Moribund sacrifice or spontaneous death

\* P < 0.05

\*\* P < 0.01

Table 45

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) in the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions for the  
Terminal Sacrificed Females and 12-24 Month MS/SD<sup>a</sup>

		DOSE (mg/kg/day)				
		0.0	0.4	2.0	10.0	20.0
<u>SPLEEN = INCREASED PIGMENT</u>						
TERMINAL SACRIFICE:						
PRESENT	5	1	3	32**	35**	
ABSENT	32	39	37	14	12	
<u>SPLEEN = INCREASED EXTRAMEDULLARY HEMATOPOIESIS</u>						
TERMINAL SACRIFICE:						
PRESENT	13	6	5	28*	36**	
ABSENT	24	34	35	18	11	
<u>SPLEEN = CONGESTION</u>						
TERMINAL SACRIFICE:						
PRESENT	7	8	15*	35**	37**	
ABSENT	30	32	25	11	10	
<u>SPLEEN = MONOCYTIC LEUKEMIA</u>						
TERMINAL SACRIFICE:						
PRESENT	8	14	14	5	1**	
ABSENT	29	26	26	41	46	
<u>KIDNEYS = INCREASED RENAL PIGMENT</u>						
TERMINAL SACRIFICE:						
PRESENT	30	34	40**	46**	47**	
ABSENT	7	6	0	0	0	
MS/SD:						
PRESENT	5	7	13**	5	8**	
ABSENT	12	7	2	4	0	

<sup>a</sup> Moribund sacrifice or spontaneous death

\* P < 0.05

\*\* P < 0.01

Table 45 (contd)

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) In the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions for the  
Terminal Sacrificed Females and 12-24 Month MS/SD<sup>a</sup>

	DOSE (mg/kg/day)				
	0.0	0.4	2.0	10.0	50.0
<u>KIDNEYS = INFLAMMATION, LYMPHOCYTIC</u>					
TERMINAL SACRIFICE:					
PRESENT	14	16	16	33**	32*
ABSENT	23	24	24	13	15
<u>KIDNEYS = MINERALIZATION AND HYPERPLASIA OF PELVIC EPITHELIUM</u>					
TERMINAL SACRIFICE:					
PRESENT	0	0	0	0	7*
ABSENT	37	40	40	46	40
<u>URINARY BLADDER = HYPERPLASIA</u>					
TERMINAL SACRIFICE:					
PRESENT	0	0	0	2	12**
ABSENT	37	40	40	44	35
<u>URINARY BLADDER = PAPILOMA</u>					
TERMINAL SACRIFICE:					
PRESENT	0	0	0	1	4
ABSENT	37	40	40	45	43
MS/SD:					
PRESENT	0	0	0	0	1
ABSENT	17	14	15	9	7
<u>URINARY BLADDER = CARCINOMA</u>					
TERMINAL SACRIFICE:					
PRESENT	0	0	0	1	11*
ABSENT	37	40	40	6	36
MS/SD:					
PRESENT	0	0	0	0	1
ABSENT	17	14	15	9	7
<u>BONE MARROW = FIBROSIS</u>					
TERMINAL SACRIFICE:					
PRESENT	4	6	10	12	15**
ABSENT	33	34	30	34	32

<sup>a</sup> Moribund sacrifice or spontaneous death

\* P < .05

\*\* P < .01

FIGURES

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN HEMATOCRIT VALUES (%) VS TIME IN MALES

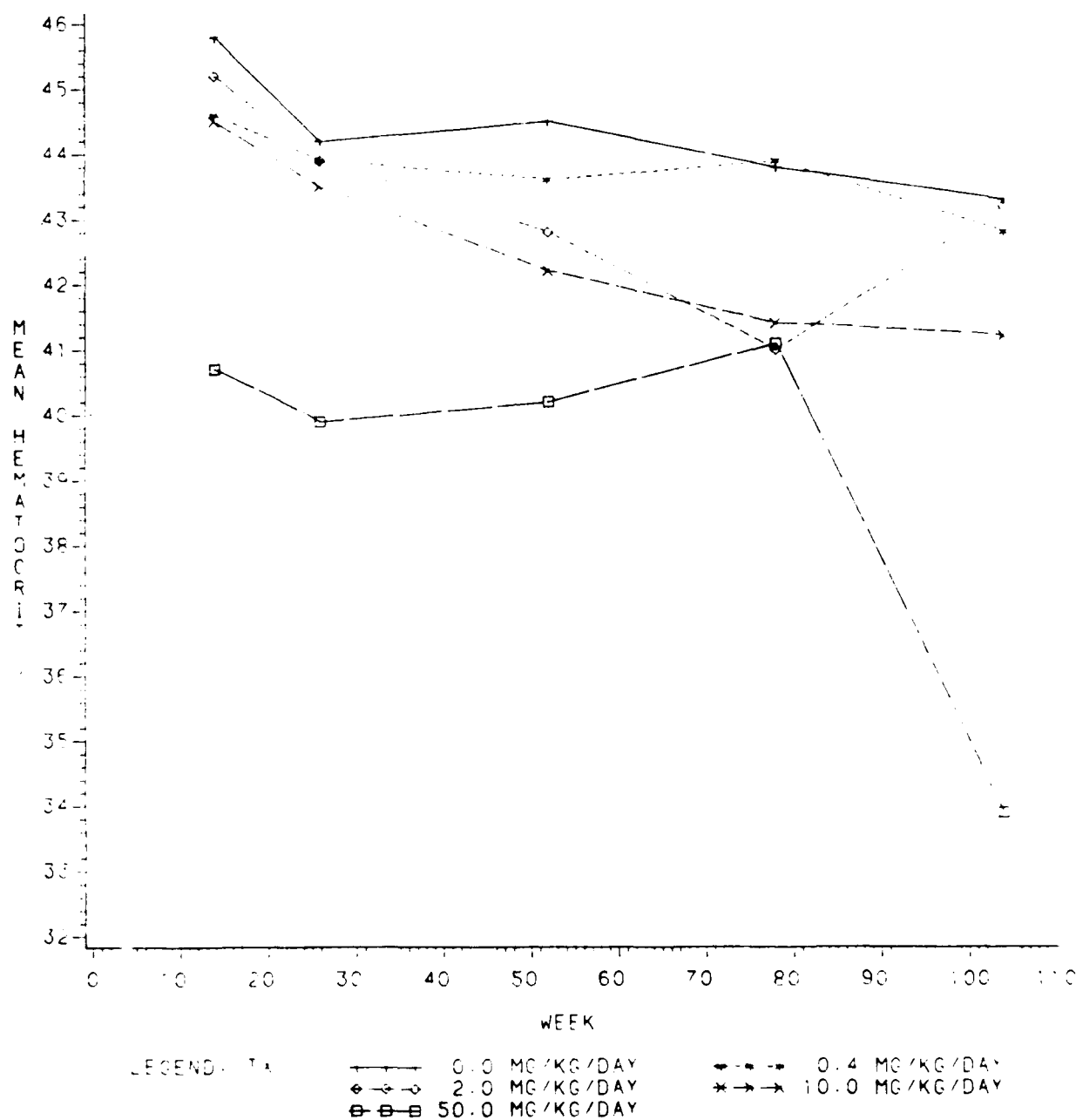


FIGURE 1

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN HEMATOCRIT VALUES (%) VS TIME IN FEMALES

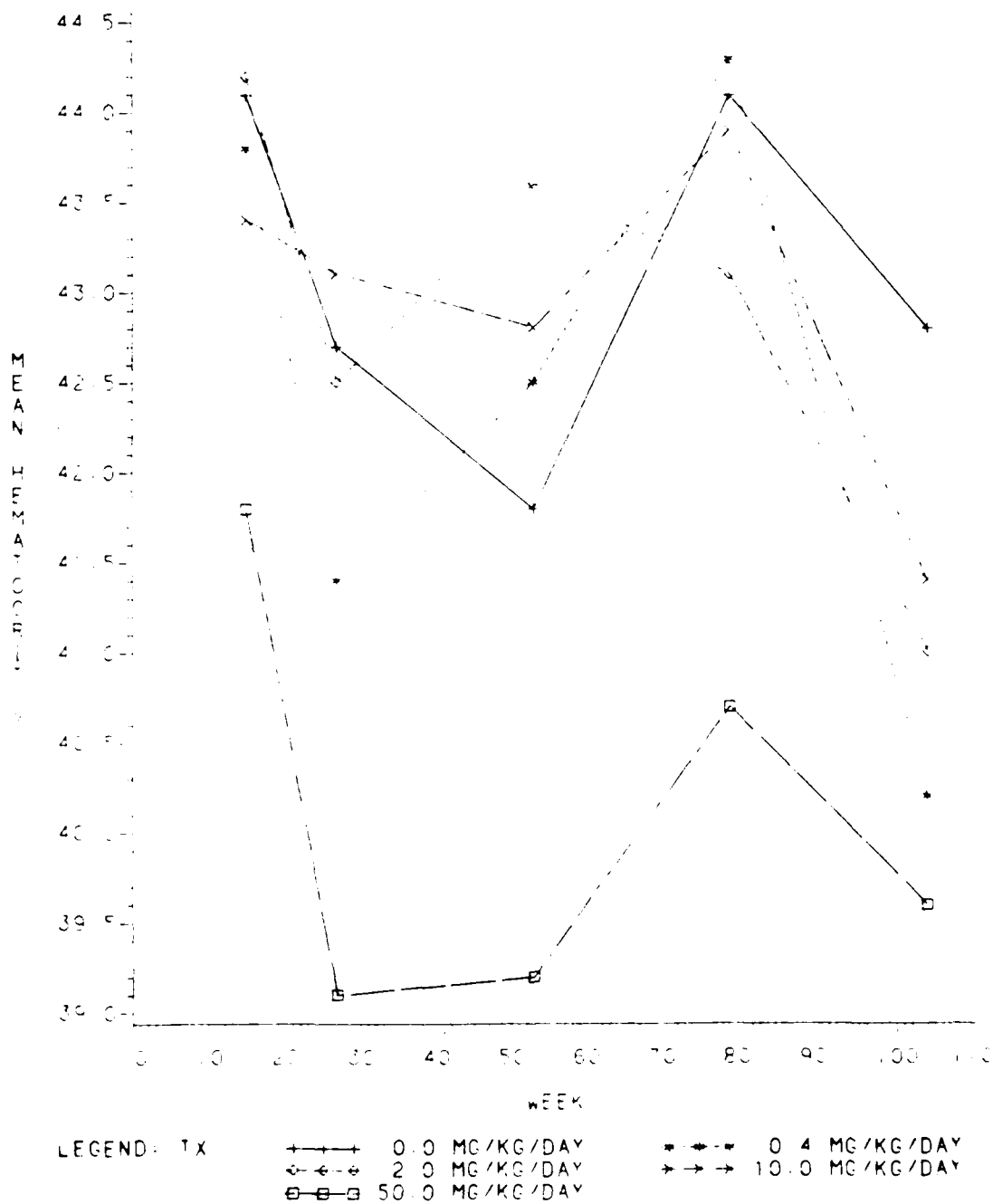


FIGURE 2

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN METHEMOGLOBIN VALUES (g/dl) VS TIME IN MALES

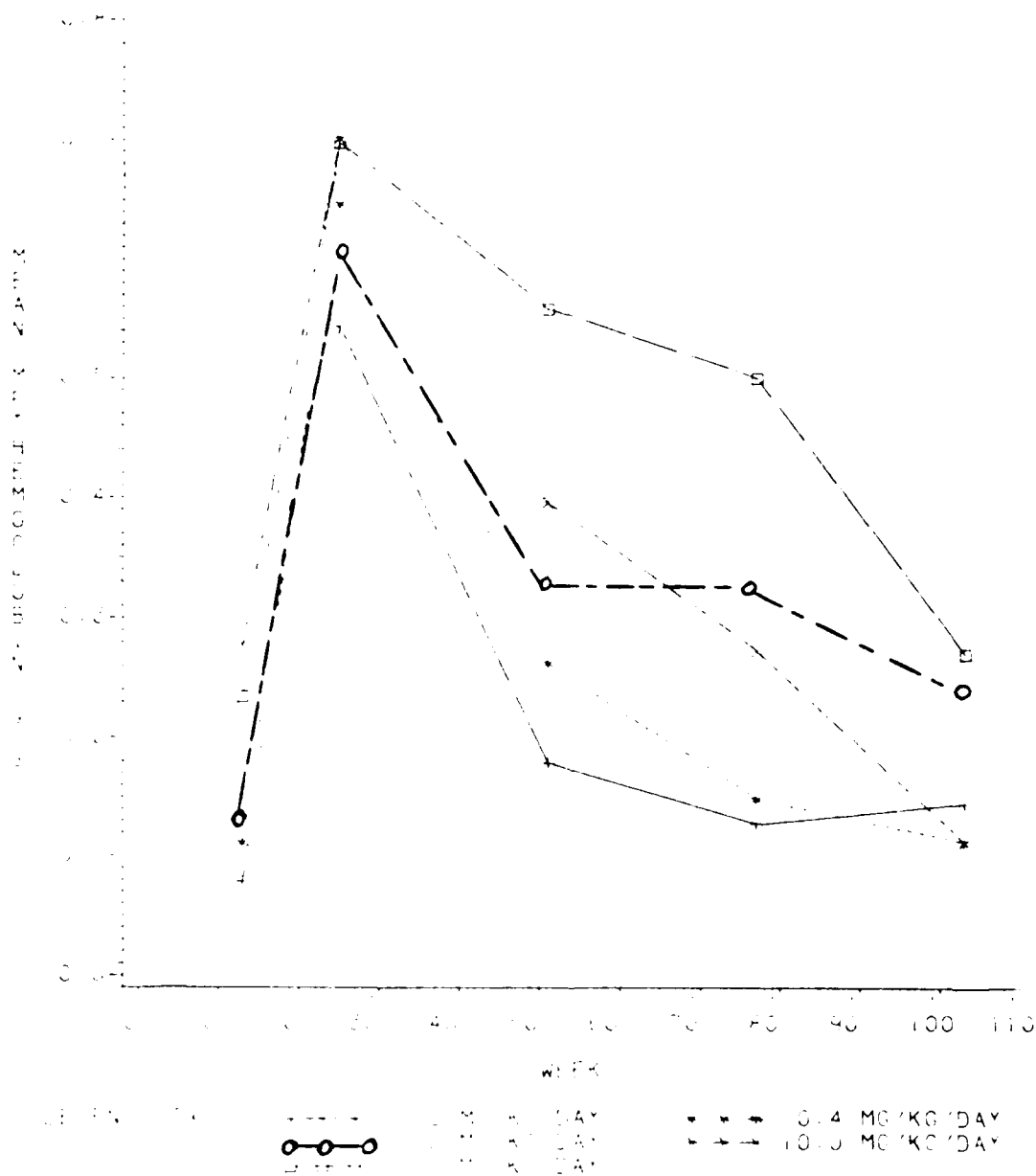


FIGURE 3

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN METHEMOGLOBIN VALUES (g/dl) VS TIME IN FEMALES

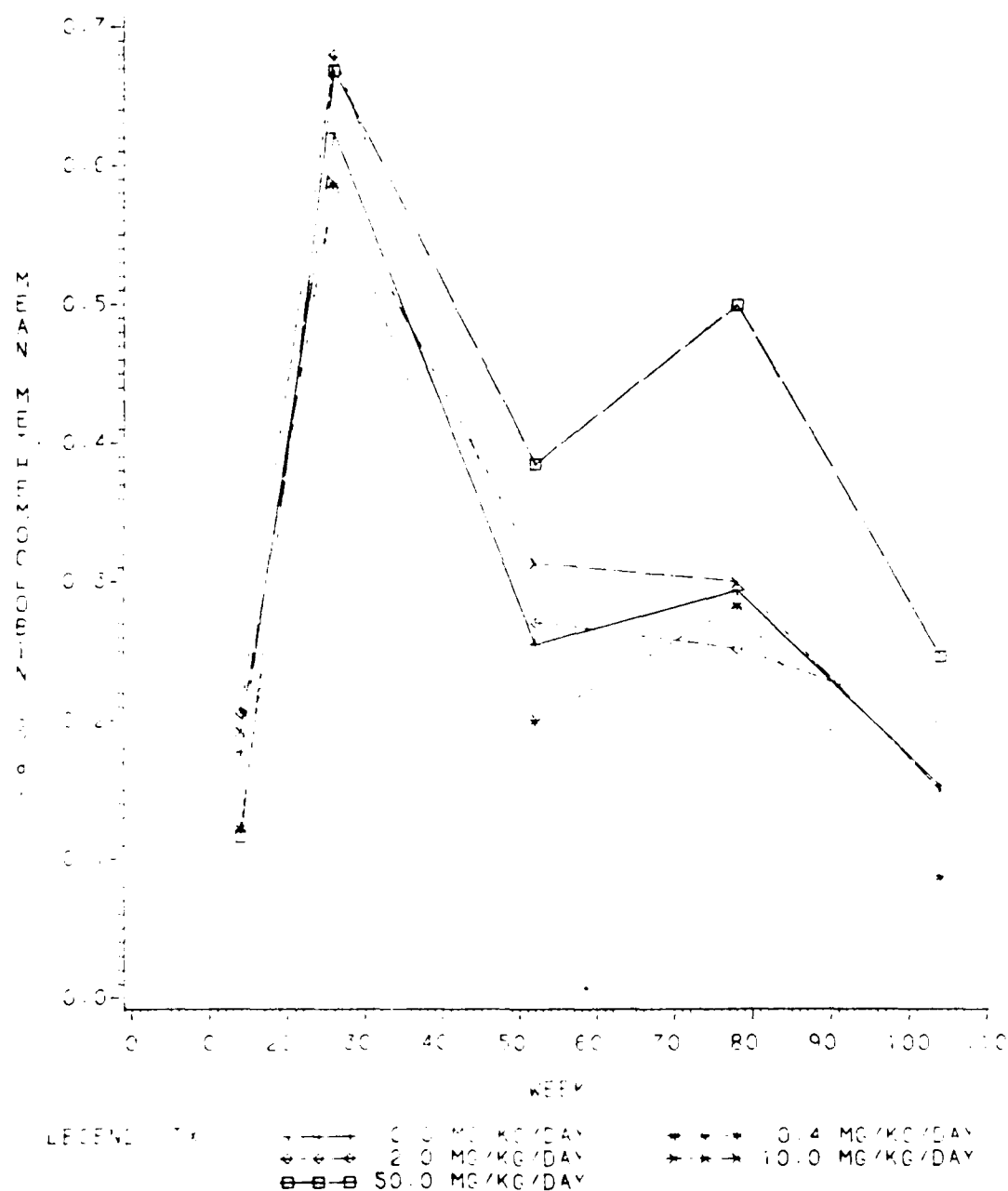
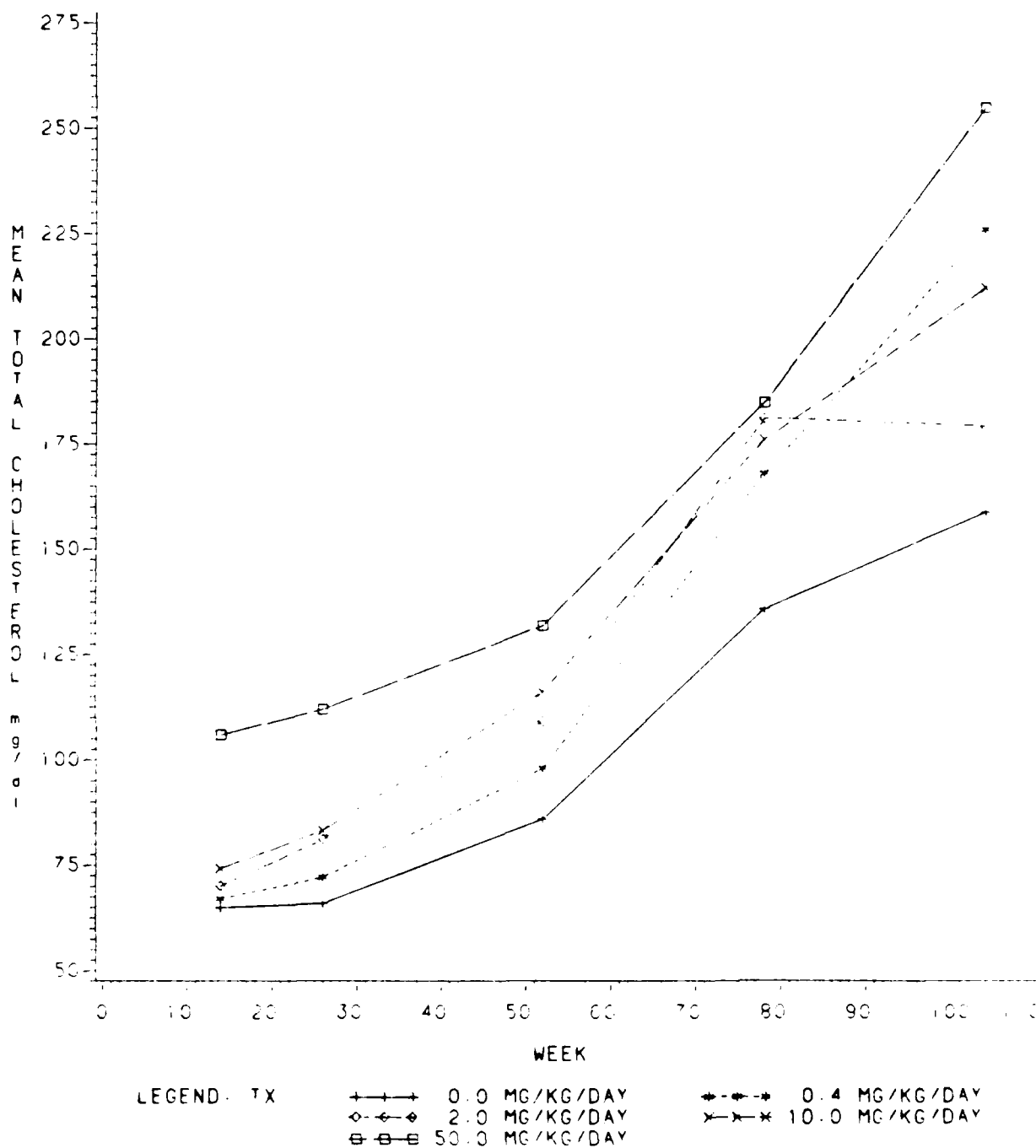


FIGURE 4

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN CHOLESTEROL VALUES (mg/dl) VS TIME IN MALES



# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN CHOLESTEROL VALUES (mg/dl) VS TIME IN FEMALES

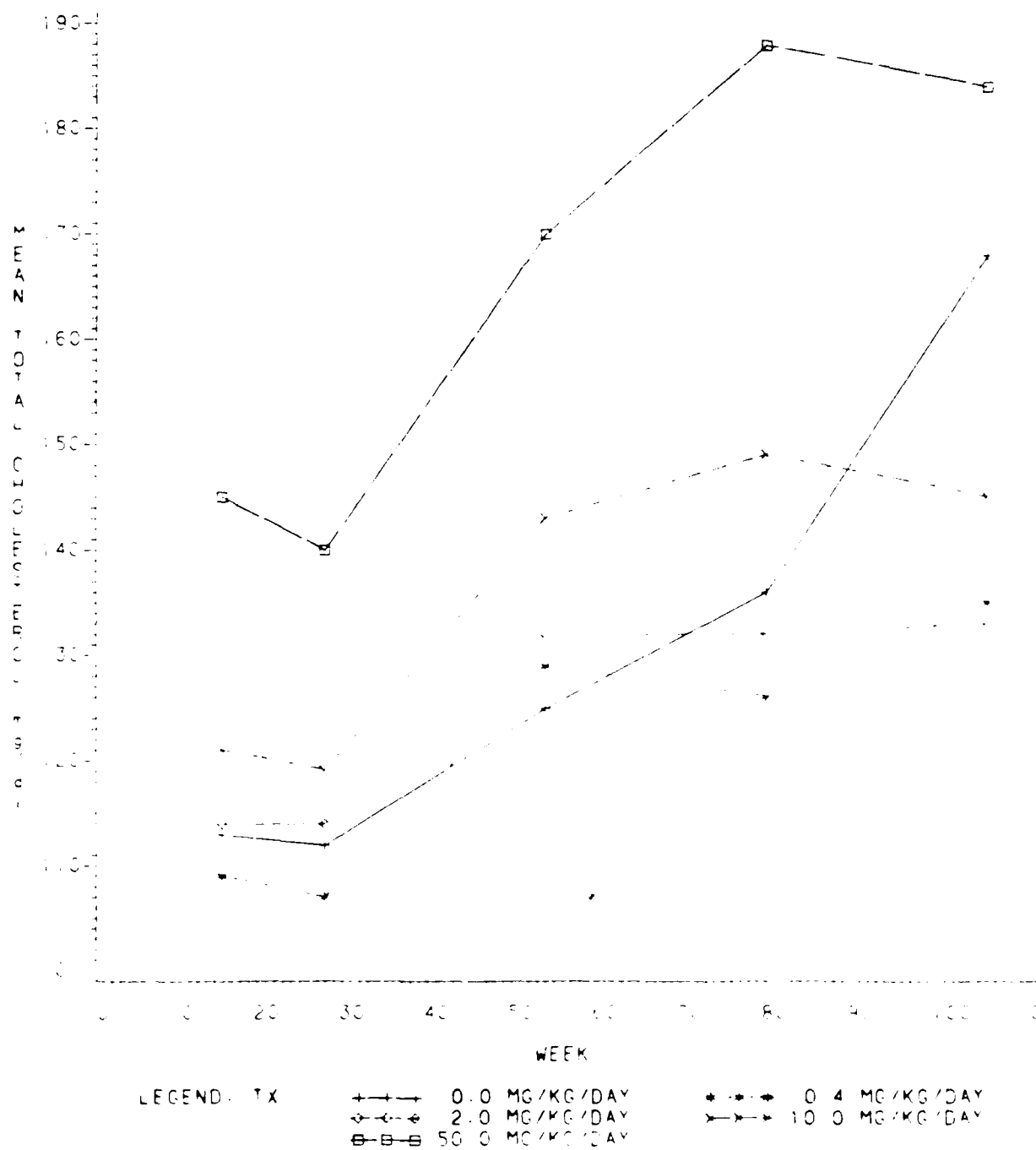


FIGURE 6

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN TRIGLYCERIDE VALUES (mg/dl) VS TIME IN MALES

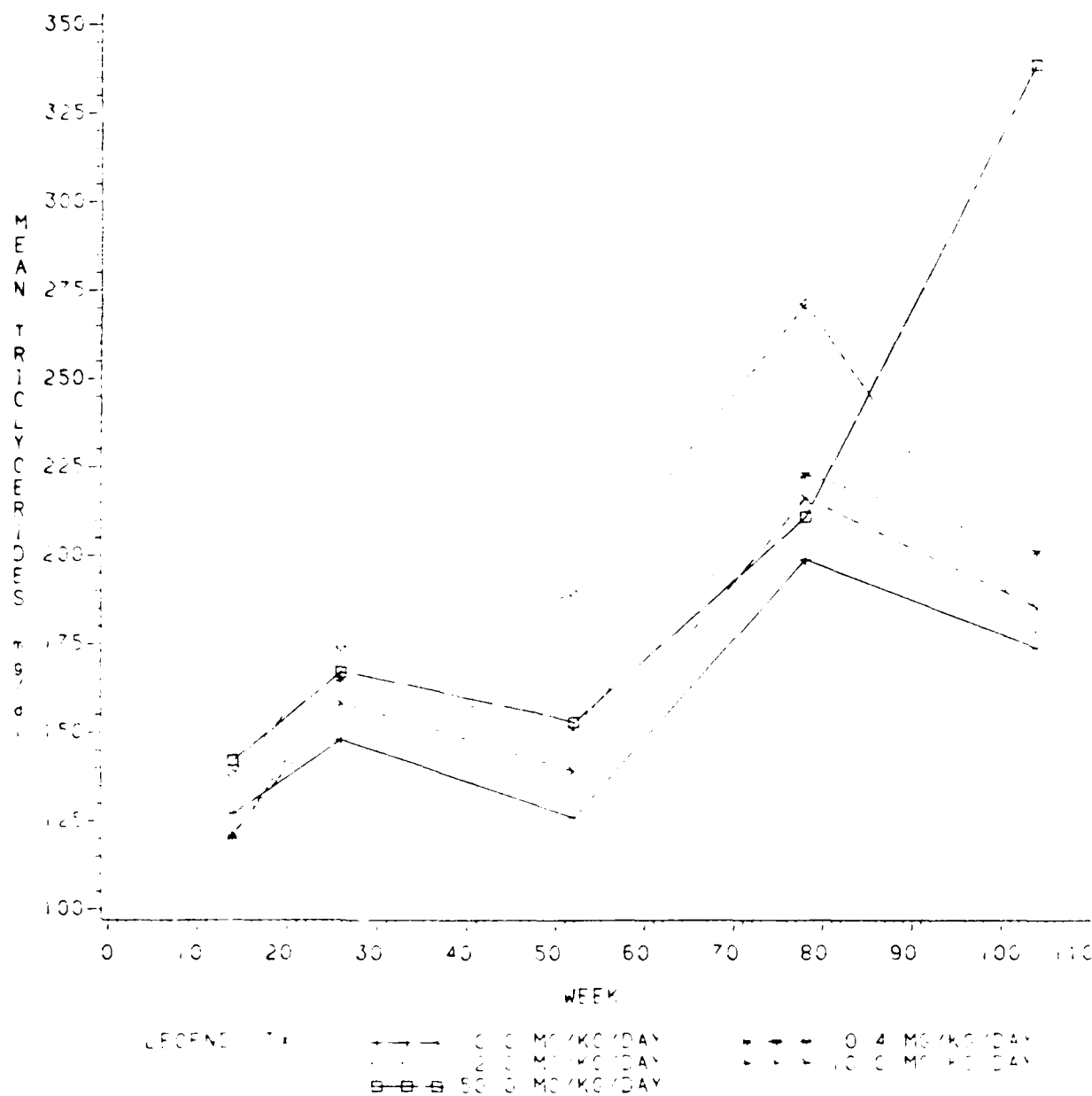


FIGURE 7

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN TRIGLYCERIDE VALUES (mg/dl) VS TIME IN FEMALES

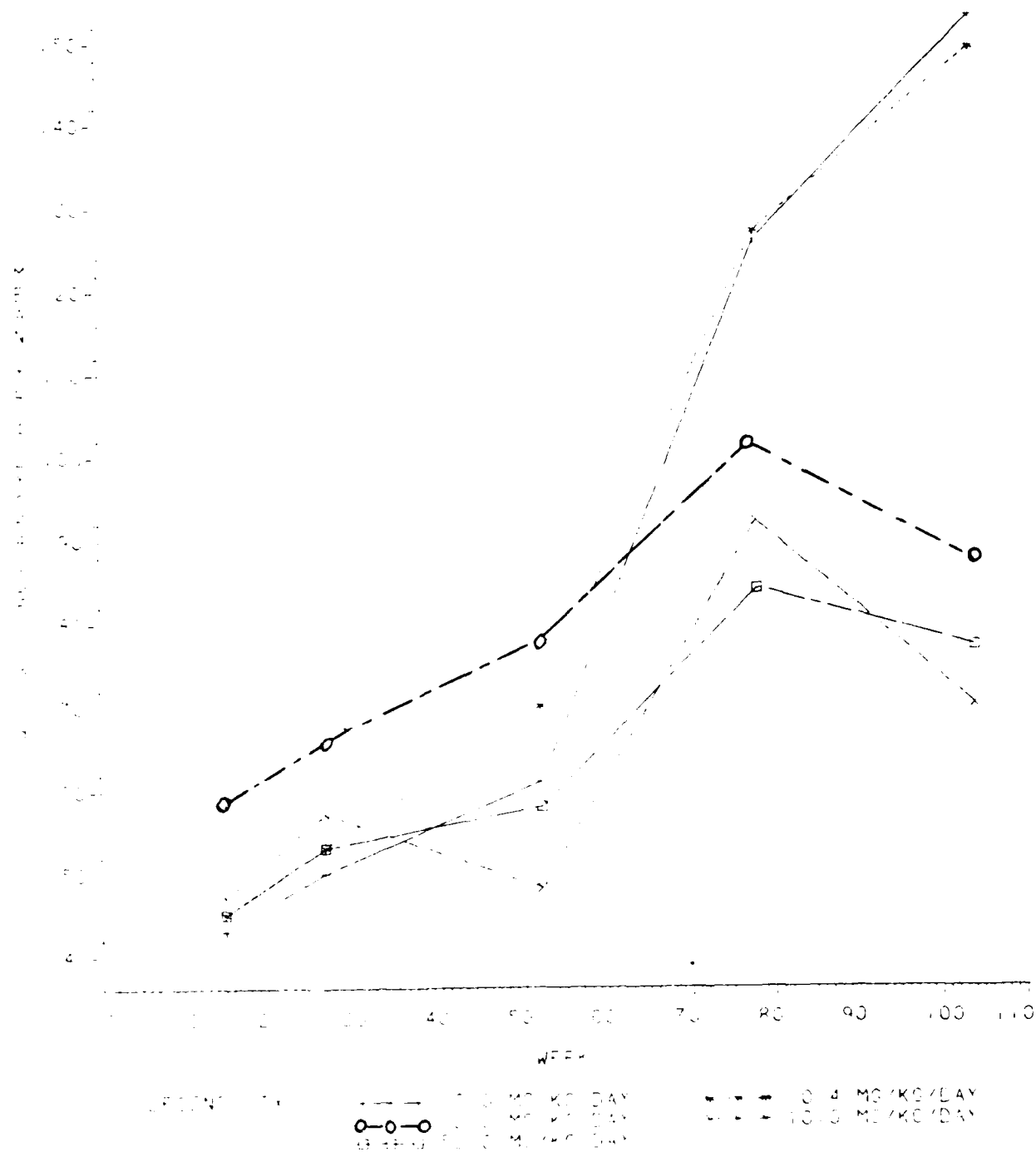
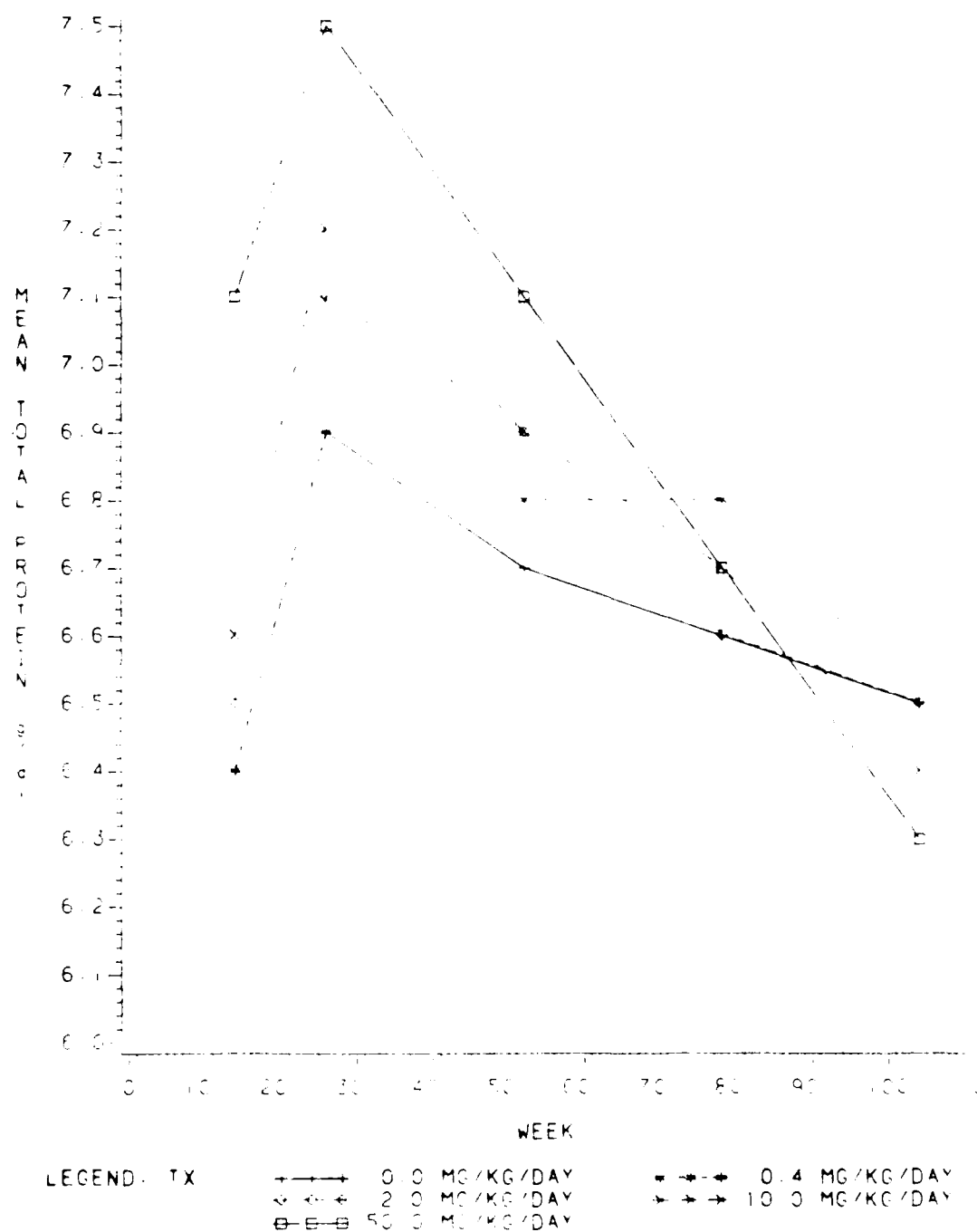


FIGURE 8

# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN TOTAL PROTEIN VALUES (g/dl) VS TIME IN MALES



# TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT MEAN TOTAL PROTEIN VALUES (g/dl) VS TIME IN FEMALES

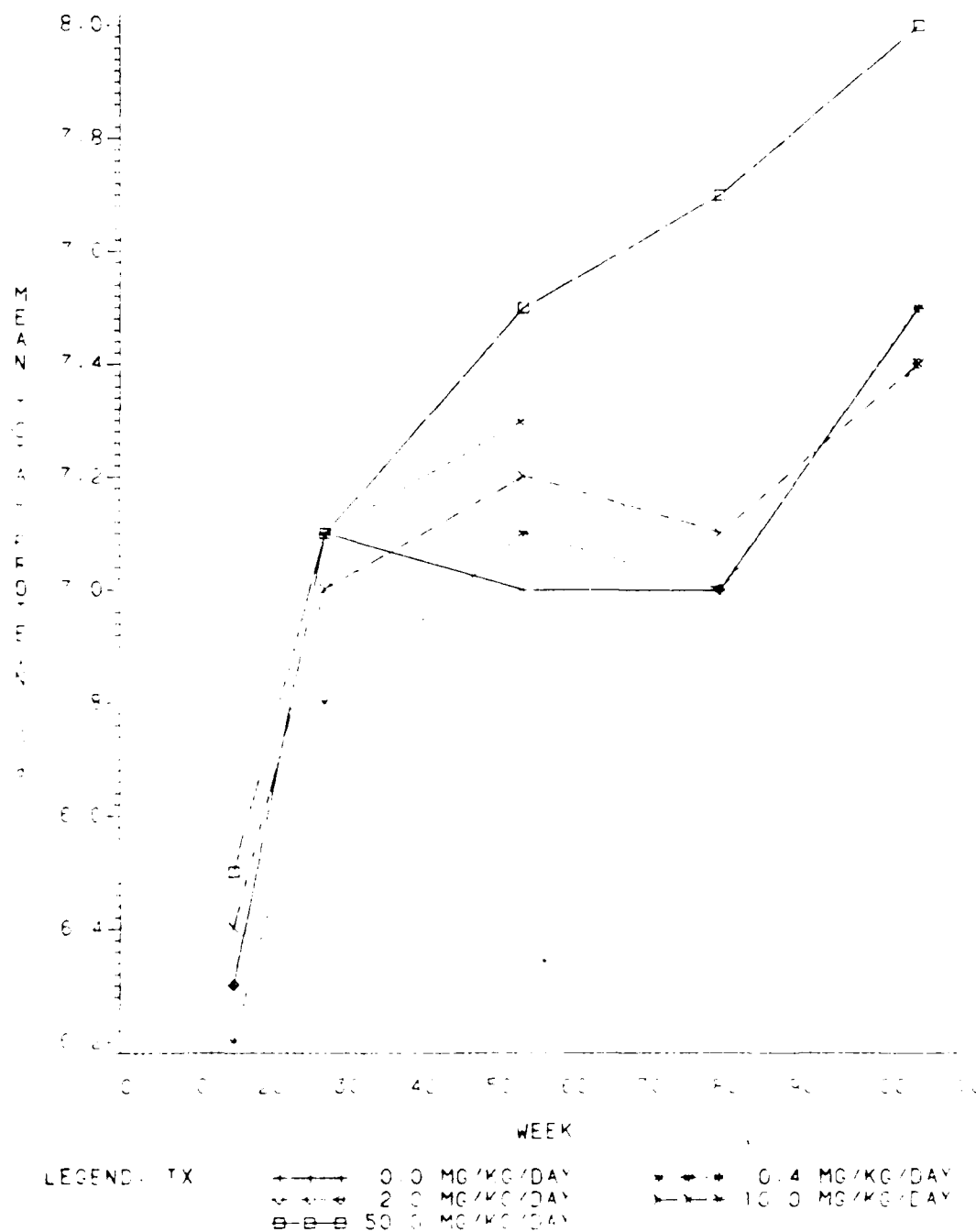


FIGURE 10

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT

MEAN A/G RATIOS VS TIME  
IN MALES

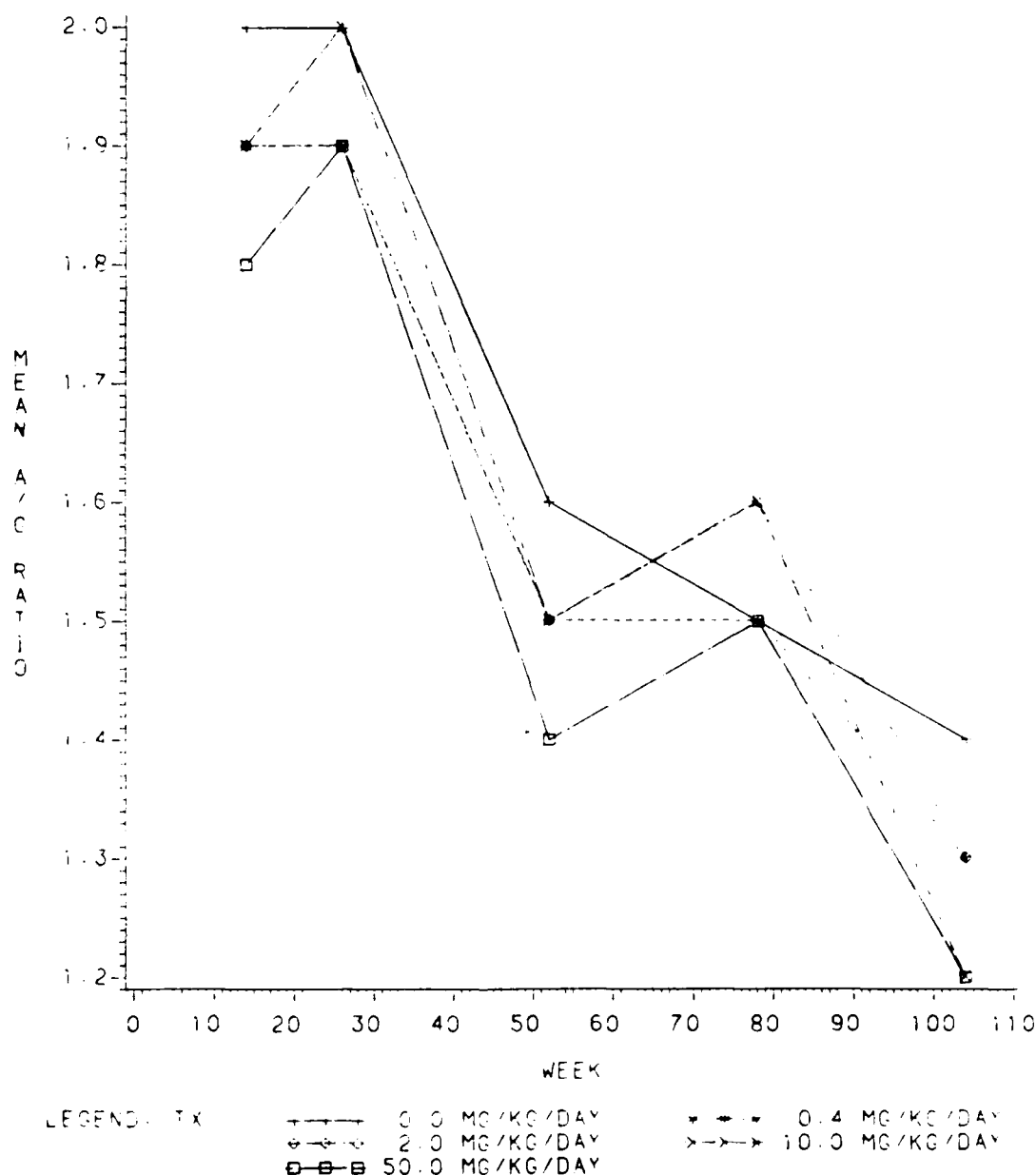


FIGURE 11

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT

MEAN A/G RATIOS VS TIME  
IN FEMALES

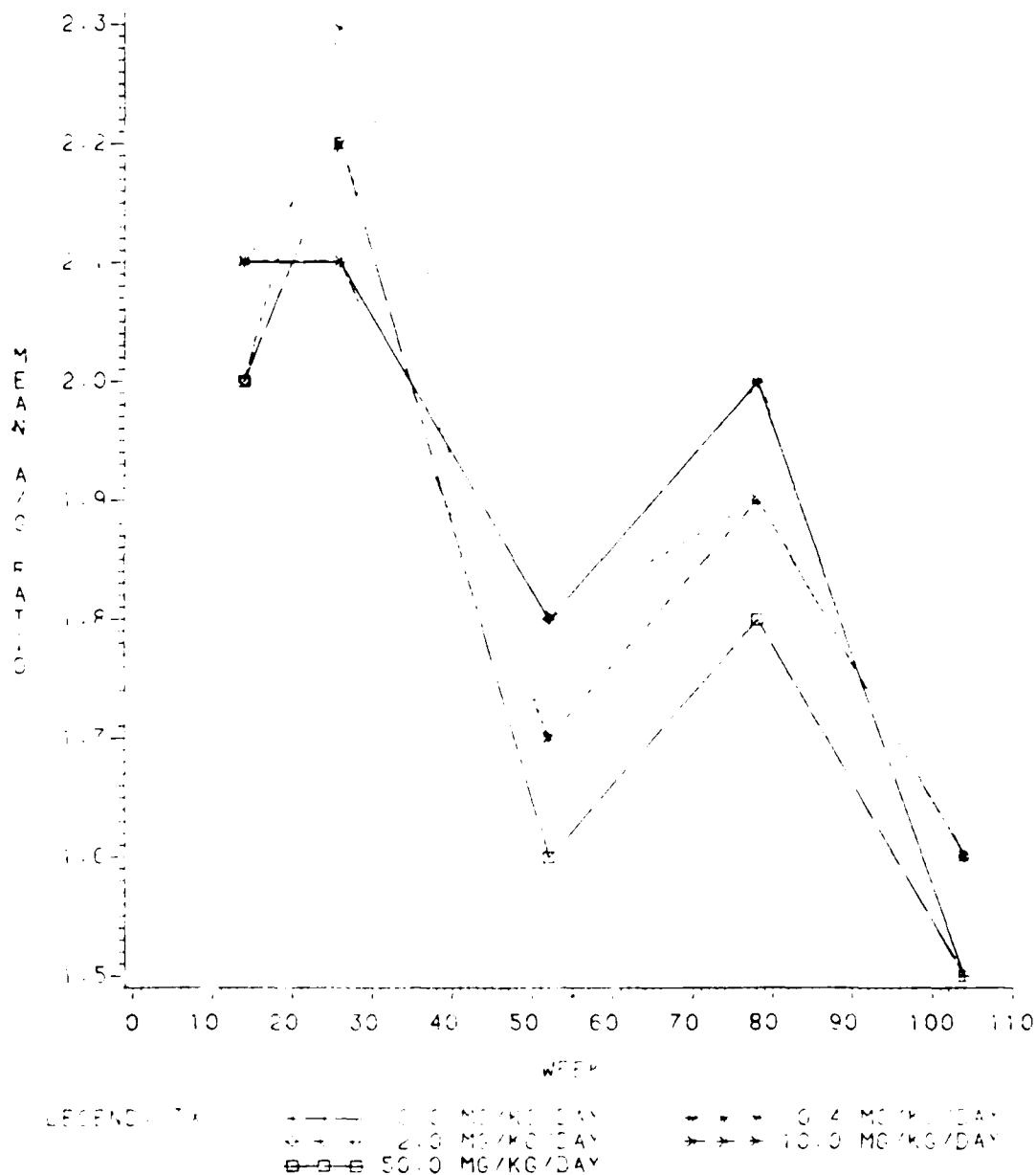


FIGURE 12

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APPENDIX I  
TEST ARTICLE ANALYSIS

APPENDIX 1A  
ANALYSIS OF THE TNT TEST ARTICLE

*SCOPE*

- 1.1 The procedure describes the analysis of the TNT test article for purity.
- 1.2 This method is recommended for use only by experienced analysts familiar with High Performance Liquid Chromatography (HPLC) or under close supervision of such qualified person.

*INTERFERENCES*

- 2.1 Solvents, reagents, glassware and other sample processing hardware may yield discrete artifacts and/or elevated baselines causing misinterpretation of chromatograms. All of these materials must be shown to be free from interferences under the conditions of the analysis by running method blank.

*EQUIPMENT*

- 3.1 Higher Performance Liquid Chromatography
  - constant flow, isocratic pumping system
  - reverse phase column, 10  $\mu$  - 3.9 mm x 30 cm  $\mu$ -Bondpak C<sub>18</sub> column
  - ultraviolet detector capable of monitoring  $\lambda$  = 254 nm
  - strip chart recorder and electronic integrator capable of measuring peak areas and performing an internal standard calculation

*REAGENTS*

- 4.1 Benzophenone, an internal standard, Aldrich Chemical Company (Purity 99%)
- 4.2 Methanol, Acetonitrile, and Water HPLC Grade or equivalent
- 4.3 S.A.R.M. 2,4,6-TNT, Supplied by sponsor (Purity 99.8%)

*CALIBRATION*

- 5.1 Calibration standards were prepared from stock solutions containing 200  $\mu$ g TNT, and benzophenone per ml acetonitrile so as to bracket

the working range of the chromatographic system. These concentrations were: 2 µg/ml, 10 µg/ml, 20 µg/ml, and 40 µg/ml.

- 5.2 A constant injection volume of 10 µl was employed for all measurements.
- 5.3 In order to determine the precision of the HPLC system, a series of 6 replicate injections of the 20 µg/ml solution were made.
- 5.4 Retention times should remain relatively constant (within + 5% day to day) with TNT being 5.1 minutes, and benzophenone 8.2 minutes under the specified conditions. If the retention times are not within + 5%, supervising chemist should be informed prior to the analysis and corrective actions should be taken.

#### *QUALITY CONTROL*

- 6.1 Before processing any samples, the analyst should demonstrate through the analysis of a blank that all glassware and reagents are interference free.
- 6.2 In a typical sample set, a minimum of one blank and five samples will be analyzed.
- 6.3 The analyst will follow each step in an analytical protocol without deviation or improvisations in order to accurately assess the performance of the method. Prior to making any changes in the procedure, analyst will consult the supervising chemist and the supervising chemist and Q.A. officer will review and approve all the changes.

#### *SAMPLE PREPARATION*

- 7.1 The test article will be spread on a sheet of paper, and five samples will be taken from different areas. Each sample shall have a weight of ~150 mg. The samples will be collected in amber vials and stored at refrigerator temperatures in the dark until analysis.
- 7.2 A portion of the sample (100 mg) will be weighed and transferred to a 100 ml volumetric flask. The internal standard will be added and it will be added and it will be diluted to volume. It will be further diluted to a concentration of 20 µg/ml and analyzed by high performance liquid chromatography.
- 7.3 If the sample is not analyzed immediately it will be stored at refrigerator temperatures in the desk.

#### *HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)*

- 8.1 Each sample was analyzed by reverse phase HPLC using the conditions described below: Column 3.9 mm x 30.0 cm µ-Bondpak C<sub>18</sub>; Solvent System, mentanol:water (70:30, v/v); Flow Rate, 1.0 ml/min;

Detection, UV at 254 nm; Sensitivity, 0.1 AUFS. The retention times of TNT and benzophenone were 5.1 and 8.2 minutes, respectively. The limit of detection was 2 µg TNT/ml acetonitrile and is defined as 5x the background noise. The representative chromatogram is Figure 1A.1.

- 8.2 The chromatographic system was calibrated daily with a minimum of two injections of our standard representative of chromatographic range.
- 8.3 An injection volume of 10.0 µl was used for each sample. If the peak area exceed the linear range of a sample it was diluted and reanalyzed.

#### *CALCULATIONS*

- 9.1 Determine the concentration of TNT using the formula:

$$\% \text{ TNT in Sample} = \frac{(Ax) (Wis) \times D \times 100}{(Fx) Ais (Ws)}$$

where

Ax = Area (X) where x is TNT

Ais = Area (internal standard)

$Fx = \frac{\text{Area (X)} \times \text{weight (is)}}{\text{Area (is)} \times \text{weight (Wx)}}$

Wis = Weight of the internal standard

Ws = Weight of the sample

D = The dilution factor

Wx = Wt of component x is TNT

- 9.2 The results should be reported in percent TNT in the sample. Where replicate samples are analyzed, all data should be reported. All results were recorded in standard IITRI logbooks and these plus chromatograms and data tapes were retained in the Chemistry Division Q.A. files.

APPENDIX 1B  
ANALYSIS OF TNT IN DIETS

*SCOPE AND APPLICATION*

- 1.1 This method covers the determination of TNT in diets from the 0.0005% to 0.1% level.
- 1.2 The sensitivity of this method is dependent on the level of interferences present in the samples, rather than the instrumental limitations.
- 1.3 This method is recommended for use only by experienced analysts familiar with High Performance Liquid Chromatography (HPLC) or under close supervision of such qualified persons.

*SUMMARY OF THE METHOD*

- 2.1 A weighed quantity of the sample was stirred with 50 ml of acetonitrile for 30 minutes. The suspension was filtered through a porous glass filter and the filtrate was transferred with washings to a volumetric flask. Benzophenone, the internal standard was added to the filtrate or a portion, thereof and this solution was diluted to its final volume. The samples were analyzed using reverse phase high performance liquid chromatography. Each was eluted on 3.9 mm x 30.0 cm  $\mu$ -Bondapak C<sub>18</sub> column with methanol:water (70%:30%) and the eluant was monitored with an ultraviolet absorption detector at  $\lambda = 254$  nm.

*INTERFERENCES*

- 3.1 Solvents, reagents, glassware, and other sample processing hardware may yield discrete artifacts and/or elevated baselines causing misinterpretation of chromatograms. All of these materials must be shown to be free from interferences under the conditions of the analysis by running method blanks.
- 3.2 Interferences coextracted from the samples will vary considerably from source to source, depending on the type of animal feed used in the study.

*MATERIALS*

- 4.1 Erlenmeyer flasks, 125 ml.
- 4.2 Filtering apparatus, vacuum flask, 125 ml; fritted glass filters, porosity M, ASTM 10-20 microns.

### *EQUIPMENT*

- 5.1 Mettler Grammatic Analytical Balance, No. 1-910
- 5.2 Corning Hot Plate Stirrers, BC 351
- 5.3 Buchi Evaporator, Model R
- 5.4 Sample Clarification Kit, Organic (Water's Associates)
- 5.5 Higher Performance Liquid Chromatography
  - constant flow, isocratic pumping system
  - reverse phase column, 10  $\mu$  - 3.9 mm x 30 cm  $\mu$ -Bondapak C<sub>18</sub> column
  - ultraviolet detector capable of monitoring  $\lambda$  = 254 nm
  - strip chart recorder and electronic integrator capable of measuring peak areas and performing an internal standard calibration.

### *REAGENTS*

- 6.1 Benzophenone, an internal standard, Aldrich Chemical Company (Purity 99%)
- 6.2 Methanol, Acetonitrile, and water, HPLC Grade or equivalent
- 6.3 S.A.R.M. 2,4,6-TNT, Supplied by sponsor (Purity 99.8%)

### *CALIBRATION*

- 7.1 Calibration standards were prepared from stock solutions containing 200  $\mu$ g TNT, and benzophenone per ml acetonitrile so as to bracket the working range of the chromatographic system. These concentrations were: 0.5  $\mu$ g/ml, 2  $\mu$ g/ml, 10  $\mu$ g/ml, 20  $\mu$ g/ml, and 40  $\mu$ g/ml.
- 7.2 A constant injection volume of 10  $\mu$ l was employed for all measurements.
- 7.3 In order to determine the precision of the HPLC system, a series of 6 replicate injections of the 20  $\mu$ g/ml solution were made.
- 7.4 Retention times should remain relatively constant (within  $\pm 5\%$  day to day) with TNT being 5.1 minutes, and benzophenone 8.2 minutes under the specified conditions. If the retention times are not within  $\pm 5\%$ , supervising chemist should be informed prior to the analysis and corrective actions should be taken.

#### *QUALITY CONTROL*

- 8.1 Before processing any samples, the analyst should demonstrate through the analysis of a blank that all glassware and reagents are interference free. Each time a set of samples is extracted or there is a change in reagents, a method blank should be processed as a safeguard against laboratory contamination.
- 8.2 Standard quality assurance practices were used with this method. A minimum of six replicate spiked samples were analyzed to validate the accuracy of the method. If doubt should arise concerning the identity of the peak on a chromatogram, confirmatory techniques such as mass spectrometry should be used.
- 8.3 In a typical sample set, a minimum of one blank and scheduled samples will be analyzed. A control sample will be prepared by adding a known concentration of TNT to the sample. The concentration will be in the working range of chromatographic system as determined by calibration experiment.
- 8.4 The analyst will follow each step in an analytical protocol without deviation or improvisations in order to accurately assess the performance of the method. Prior to making any changes in the procedure, analyst will consult the supervising chemist and the supervising chemist and the Q.A. officer will review and approve all the changes.
- 8.5 The typical analysis will consist of the following samples, one blank sample, 6 diet samples as is, 3 feed samples spiked for recovery determination at the diet concentration.

#### *SAMPLE COLLECTION*

- 9.1 Samples are collected and stored prior to analysis according to SOP 81 sample collection (TNT and RDX diet samples).

### SAMPLE EXTRACTION

- 10.1 The appropriate amount of sample is weighed into a 125 ml Erlenmeyer flask using standard operating procedures. The sample amount for the diet mixture is ten grams. Approximately 50 mls of acetonitrile is added to the flask and it is stoppered. The sample is extracted by stirring for 30 minutes only at room temperature.
- 10.2 Following extraction, the sample was filtered through a medium porosity fritted glass filter. In this operation the extraction mixture was swirled to form a uniform suspension and immediately poured into the glass funnel. A stirring rod was used to drain the last drop of liquid from the flask.
- 10.3 The extraction flask was rinsed with three portions of acetonitrile of approximately three mls each and the rinses are poured into the funnel. The vacuum is reapplied and the washing process is completed.
- 10.4 The filtrate is transferred via a short-stem funnel into a volumetric flask. The filtering flask is rinsed three times, with approximately 5 ml portions of acetonitrile and the rinses are added to the volumetric flask. The size of the volumetric flask and the subsequent treatment of the sample depend on the initial TNT concentration in the sample. The dilution for various sample levels is shown in Table 1B.1. Diet samples will be diluted to a volume that places them in the working range of the chromatographic system.
- 10.5 An aliquot (approximately 10 ml) is filtered using a Water's Organic Sample Clarification Kit using 0.5  $\mu$ m filter. The sample is now ready for analysis for HPLC.

TABLE 1B.1 DILUTION SCHEME FOR TNT DIET SAMPLES

Diet Level (%)	Extract Volume (ml)	Extract Diluted (ml)	Benzophenone (IS) Added	Final Volume (ml)
0.0005	100	--	1 ml 50 $\mu$ g/ml	100
0.0050	100	--	1 ml 500 $\mu$ g/ml	100
0.010	100	--	1 ml 1000 $\mu$ g/ml	100
0.050	100	10	1 ml 500 $\mu$ g/ml	25
0.100	100	10	1 ml 1000 $\mu$ g/ml	50

## STORAGE OF SAMPLES

- 11.1 All samples including diet and blank feed will be stored in the dark at refrigerator temperatures.
- 11.2 If the sample preparation procedure is stopped at any point during the working day, the samples should be stored in stoppered vessels in the dark at refrigerator temperatures.
- 11.3 Samples that are ready for HPLC analysis will be stored in the dark at refrigerator temperatures.
- 11.4 TNT and benzophenone standards and all standard solutions will be stored in the dark at refrigerator temperatures.

## HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

- 12.1 Each sample was analyzed by reverse phase HPLC using the conditions described below: Column, 3.9 mm x 30.0 cm  $\mu$ Bondapak C<sub>18</sub>; Solvent System, Methanol:Water (70%:30%, v/v); Flow Rate, 1.0ml/min; Detection, UV at 254 nm. The retention times of TNT and benzophenone were 5.1 and 8.2 minutes respectively. The limit of detection was 0.2  $\mu$ g TNT/ml acetonitrile and is defined as 5x the background noise. The representative chromatogram is Figure 1. For levels at and below 0.005% TNT, the chromatographic conditions have been changed. The eluting solvent in these cases is Methanol:Water (60%:40%, v/v) at a flow rate of 1.5 ml/min.
- 12.2 The chromatographic system was calibrated daily with a minimum of two injections of one standard representative of the chromatographic range.
- 12.3 An injection volume of 10.0  $\mu$ l was used for each sample except at or below the 0.005% level then 25.0  $\mu$ l was used. Each injection at the 0.0005% level was followed by 100 $\mu$ l of acetonitrile to speed along the long retaining impurities. If the peak area exceeds the linear range of a sample it was diluted and reanalyzed.
- 12.4 For the diets at and below the 0.005% level the retention times are 4.6 and 9.9 minutes for TNT and benzophenone respectively.
- 12.5 Following the completion of an analysis or set of analyses a gradient going from initial solvent to 100% methanol in 15 min will be used to elute nonpolar compounds from the column. Elution at 100% methanol will be continued for at least one hour.

### *CALCULATIONS*

13.1 Determine the concentration of TNT using the formula:

$$\% \text{ TNT in Sample} = \frac{(A_x)(W_{is}) \times D \times 100}{(F_x) A_{is} (W_s)}$$

where

$A_x$  = Area (X) where x is TNT

$A_{is}$  = Area (internal standard)

$$F_x = \frac{\text{Area (x) x weight (is)}}{\text{Area (is) x weight (Wx)}}$$

$W_{is}$  = Weight of the internal standard

$W_s$  = Weight of the sample

$D$  = The dilution factor

$W_x$  = Wt of component x is TNT

13.2 The results should be reported in percent TNT in the sample. Where replicate samples are analyzed, all data should be reported. All results are recorded in standard IITRI logbooks and these plus chromatograms and data tapes are retained in the Chemistry Division Q.A. files.

### *SAFETY*

14.1 Safety regulations will be followed at all times especially with regard to the handling of toxic materials. When the diet samples are being handled, a lab coat and gloves will be appropriate attire. When solutions or extracts are being handled, a lab coat and gloves should be worn when there is the chance of direct contact with these materials.

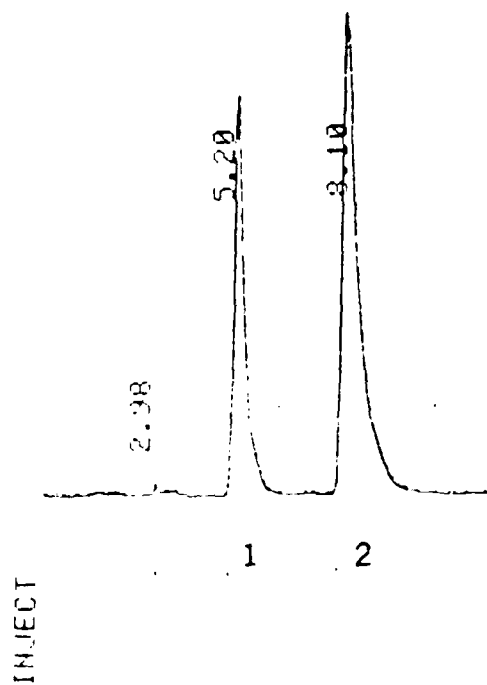


Figure 1A.1. Chromatogram of TNT (1) benzophenone (2) standard, 20  $\mu\text{g/ml}$ .

APPENDIX 1C  
ANALYSIS OF TNT IN DIET PREMIXES

*SCOPE AND APPLICATION*

- 1.1 This method covers the determination of TNT in diet premixes at 10% and 50% level.
- 1.2 The sensitivity of this method is usually dependent on the level of interferences present in the samples, rather than the instrumental limitations.
- 1.3 This method is recommended for use only by experienced analysts familiar with High Performance Liquid Chromatography (HPLC) or under close supervision of such qualified persons.

*SUMMARY OF THE METHOD*

- 2.1 A weighed quantity of the premix was stirred with 50 ml of acetonitrile for 30 minutes. The suspension was filtered through a porous glass filter and the filtrate was transferred with washings to a volumetric flask. Benzophenone, the internal standard was added to the filtrate or a portion, thereof and this solution was diluted to its final volume. The samples were analyzed using reverse phase high performance liquid chromatography. Each was eluted on 3.9 mm x 30.0 cm  $\mu$ -Bondapak  $C_{18}$  column with methanol: water (70%:30%) and the eluant was monitored with an ultraviolet absorption detector at  $\lambda = 254$  nm.

*INTERFERENCES*

- 3.1 Solvents, reagents, glassware, and other sample processing hardware may yield discrete artifacts and/or elevated baselines causing misinterpretation of chromatograms. All of these materials must be shown to be free from interferences under the conditions of the analysis by running method blanks.
- 3.2 Interferences coextracted from the samples will vary considerably from source to source, depending on the type of animal feed used in the study.

*MATERIALS*

- 4.1 Erlenmeyer flasks, 125 ml.
- 4.2 Filtering apparatus, vacuum flask, 125 ml; fritted glass filters, porosity M, ASTM 10-20 microns.

### *EQUIPMENT*

- 5.1 Mettler Grammatic Analytical Balance, No. 1-910
- 5.2 Corning Hot Plate Stirrers, BC 351
- 5.3 Buchi Evaporator, Model R
- 5.4 Sample Clarification Kit, Organic (Water's Associates)
- 5.5 Higher Performance Liquid Chromatography
  - constant flow, isocratic pumping system
  - reverse phase column, 10  $\mu$  - 3.9 mm x 30 cm  $\mu$ -Bondapak C<sub>18</sub> column
  - ultraviolet detector capable of monitoring  $\lambda$  = 254 nm
  - strip chart recorder and electronic integrator capable of measuring peak areas and performing an internal standard calculation.

### *REAGENTS*

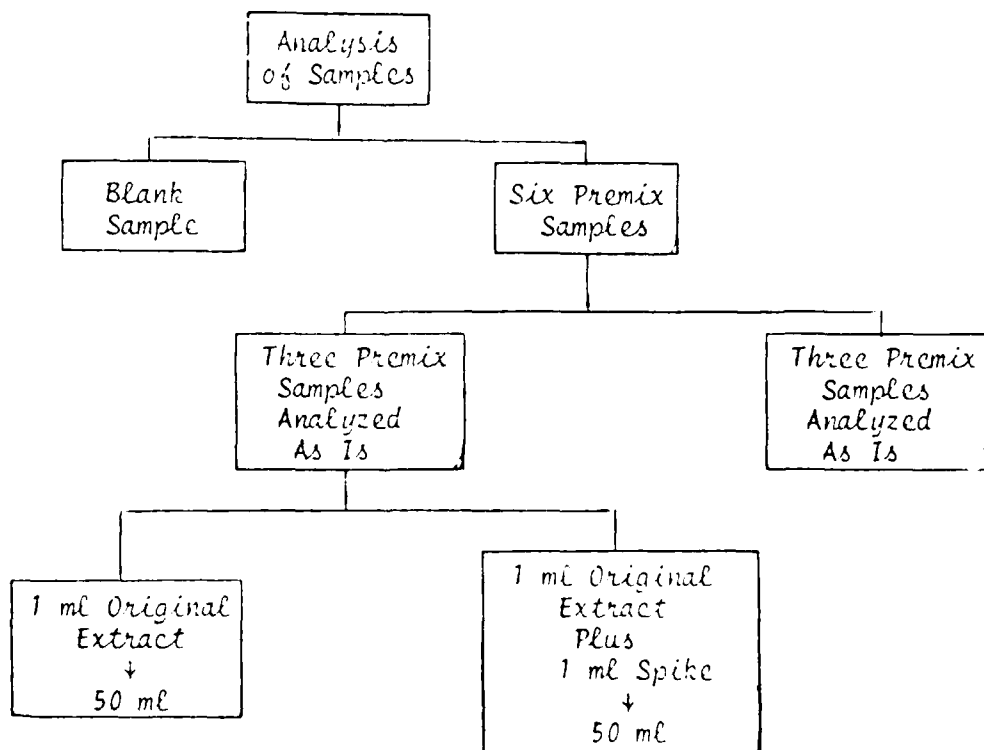
- 6.1 Benzophenone, an internal standard, Aldrich Chemical Company (Purity 99%)
- 6.2 Methanol, Acetonitrile, and Water, HPLC Grade or equivalent
- 6.3 S.A.R.M. 2,4,6-TNT, Supplied by sponsor (Purity 99.8%)

### *CALIBRATION*

- 7.1 Calibration standards were prepared from stock solutions containing 200  $\mu$ g TNT, and benzophenone per ml acetonitrile so as to bracket the working range of the chromatographic system. These concentrations were: 2  $\mu$ g/ml, 10  $\mu$ g/ml, 20  $\mu$ g/ml, and 40  $\mu$ g/ml.
- 7.2 A constant injection volume of 10  $\mu$ l was employed for all measurements.
- 7.3 In order to determine the precision of the HPLC system, a series of 6 replicate injections of the 20  $\mu$ g/ml solution were made.
- 7.4 Retention times should remain relatively constant (within  $\pm 5\%$  day to day) with TNT being 5.1 minutes, and benzophenone 8.2 minutes under the specified conditions. If the retention times are not within  $\pm 5\%$ , the supervising chemist should be informed prior to the analysis and corrective actions should be taken.

## QUALITY CONTROL

- 8.1 Before processing any samples, the analyst should demonstrate through the analysis of a blank that all glassware and reagents are interference free. Each time a set of samples is extracted or there is a change in reagents, a method blank should be processed as a safeguard against laboratory contamination.
- 8.2 Standard quality assurance practices were used with this method. A minimum of six replicate spiked samples were analyzed to validate the accuracy of the method. If doubt should arise concerning the identity of the peak on a chromatogram, confirmatory techniques such as mass spectrometry should be used.
- 8.3 In a typical sample set, a minimum of one blank and scheduled samples will be analyzed. A control sample will be prepared by adding a known concentration of TNT to the sample. The concentration will be in the working range of chromatographic system as determined by calibration experiments.
- 8.4 The analyst will follow each step in an analytical protocol without deviation or improvisations in order to accurately assess the performance of the method. Prior to making any changes in the procedure, analyst will consult the supervising chemist and the supervising chemist and the QA officer will review and approve all the changes.
- 8.5 The typical analysis will consist of the following samples shown in the diagram, one blank sample, 6 premix samples as is, 3 spiked samples.



### *SAMPLE COLLECTION*

- 9.1 Samples are collected and stored prior to analysis according to SOP 81 Sample Collection and Storage (TNT and RDX Premix).

### *SAMPLE EXTRACTION*

- 10.1 The appropriate amount of sample is weighed into a 125 ml Erlenmeyer flask using standard operating procedures. The sample amount for both the 10 percent and 50 percent premix is one gram. Approximately 50 mls of acetonitrile is added to the flask and it is stoppered. The sample is extracted by stirring for only 30 minutes at room temperature.
- 10.2 Following extraction, the sample was filtered through a medium porosity fritted glass filter. In this operation the extraction mixture was swirled to form a uniform suspension and immediately poured into the glass funnel. A stirring rod was used to drain the last drop of liquid from the flask.
- 10.3 The extraction flask was rinsed with three portions of acetonitrile of approximately five mls each and the rinse is poured into the funnel. The vacuum is reapplied and the washing process is completed.
- 10.4 The filtrate is transferred via a short-stem funnel into a volumetric flask. The filtering flask is rinsed three times, with approximately 5 ml portions of acetonitrile and the rinses are added to the volumetric flask. The size of the volumetric flask and the subsequent treatment of the sample depend on the initial TNT concentration in the sample. The dilution for samples is shown in Table 10.1.
- 10.5 An aliquot (approximately 10 ml) is filtered using a Water's Organic Sample Clarification Kit using 0.5  $\mu$ m filter. The sample is now ready for analysis for HPLC.

TABLE 10.1 DILUTION SCHEME FOR SAMPLE EXTRACTS

Premix Concentration	10%	50%
Original Extract Volume	100 ml	500 ml
Secondary Dilution	1 ml extract plus 1 ml I.S. to volume of 50 ml with acetonitrile	1 ml extract plus 1 ml I.S. to volume of 50 ml with acetonitrile

1. I.S. solution concentration is 1000  $\mu$ g/ml.
2. In the case of a sample analyzed by the method of standard addition 1 ml of the original extract was diluted with 50 ml acetonitrile, and 1 ml of the extract added to 1 ml of the spiking solution of known concentration was diluted with acetonitrile as above.

#### STORAGE OF SAMPLES

- 11.1 All samples including premixes and blank feed will be stored in the dark at refrigerator temperatures.
- 11.2 If the sample preparation procedure is stopped at any point during the working day, the samples should be stored in stoppered vessels in the dark at refrigerator temperatures.
- 11.3 Samples that are ready for HPLC analysis will be stored in the dark at refrigerator temperatures.
- 11.4 TNT and benzophenone standards and all standard solutions will be stored in the dark at refrigerator temperatures.

#### HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

- 12.1 Each sample was analyzed by reverse phase HPLC using the conditions described below: Column, 3.9 mm x 30.0 cm  $\mu$ -Bondapak C<sub>18</sub>; Solvent System, methanol:water (70%:30%, v/v); Flow Rate, 1.0 ml/min; Detection, UV at 254 nm; Sensitivity, 0.1 AUFS. The retention times of TNT and benzophenone were 5.1 and 8.2 minutes, respectively. The limit of detection was 2  $\mu$ g TNT/ml acetonitrile and is defined as 5x the background noise. The representative chromatogram is Figure 1C.1.
- 12.2 The chromatographic system was calibrated daily with a minimum of two injections of one standard representative of chromatographic range.
- 12.3 An injection volume of 10.0  $\mu$ l was used for each sample. If the peak area exceed the linear range of a sample it was diluted and reanalyzed.
- 12.4 Following the completion of an analysis or set of analyses, a gradient going from initial solvent conditions to 100% methanol in 15 minutes will be used to elute polar compounds from the column. Elution at 100% methanol will be continued for at least 1 hour.

#### CALCULATIONS

- 13.1 Determine the concentration of TNT using the formula:

$$\% \text{ TNT in Sample} = \frac{(A_x)(W_{is}) \times D \times 100}{(F_x) A_{is} (W_s)}$$

where

$A_x$  = Area (x) where x is TNT

$A_{is}$  = Area (internal standard)

$$F_x = \frac{\text{Area (X)} \times \text{weight (is)}}{\text{Area (is)} \times \text{weight (Wx)}}$$

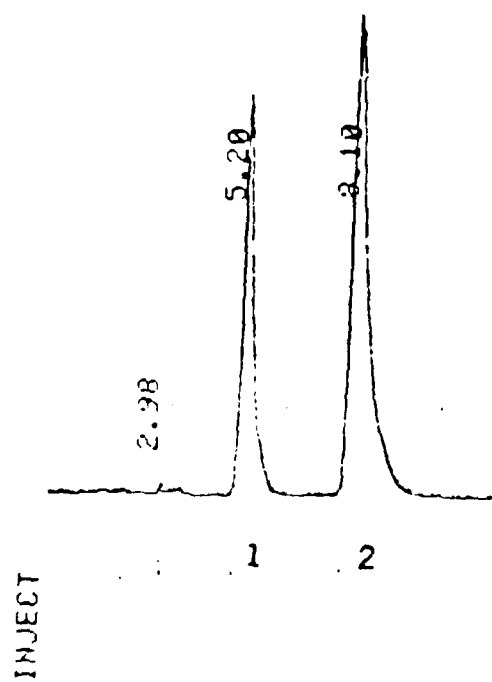


Figure 10.1 Chromatogram of TNT (1) benzophenone (2) standard, 20  $\mu\text{g/ml}$ .

Wis = Weight of the internal standard

Ws = Weight of the sample

D = The dilution factor

Wx = Wt of component x is TNT

- 13.2 The results should be reported in percent TNT in the sample. Where replicate samples are analyzed, all data should be reported. All results were recorded in standard IITRI logbooks and these plus chromatograms and data tapes were retained in the Chemistry Division Q.A. files.

#### *SAFETY*

- 14.1 Safety regulations will be followed at all times especially with regard to the handling of toxic materials. When the premix samples are being handled, a lab coat, gloves, and a mask will be appropriate attire. When solutions or extracts are being handled, a lab coat and gloves should be worn when there is the chance of direct contact with these materials.

APPENDIX ID  
SAMPLE COLLECTION AND STORAGE  
(TNT AND/OR RDX PREMIX SAMPLES)

Scope

1.1 This procedure covers the collection and storage of TNT and RDX premix samples prior to analysis.

Materials and Equipment

- 2.1 Small scoop
- 2.2 Powder funnel
- 2.3 Amber vials with plastic screw cap

Sample Collection

3.1 Personnel of the Life Sciences Division will inform the supervising chemist and the analyst when they receive TNT or RDX premixes. The analyst will collect 6 samples from the Velostat bag container, one from each of four corners and two from the middle. At least 5.0 gram quantities of premix will be collected in order to permit the extraction and analysis steps to be performed in duplicate. All samples will be identified according to the Chemistry Division identification system. All detailed information will be placed in the sample identification logbook immediately.

The sampling procedure for the premix will be performed as follows: One sample is removed from the center of the storage bag with a small scoop which will permit the removal of a 5.0g quantity. The second sample will also be removed from the center of the container in the same manner as the first sample but at a deeper level.

After center sampling, the surface of the premix is restored by leveling and four additional samples will be removed with a small scoop from each of the four corners of the bag at gradually increasing depths by lifting the corners of the bag. The 6 samples will be labeled and placed in amber vials with plastic screw caps. The label will contain Date Sampled, Sample Number, Premix Identification, Lot Number and Sampled by Initials.

#### Sample Storage

4.1 All samples will be stored at refrigerator temperatures in the dark prior to analysis. This includes feed that will be used for blanks and control samples. Every three months (from manufacturing date) feed will be changed. This manufacturing date will be supplied by Life Science

#### Transmittal Record

5.1 Transmitted record will be completed by responsible personnel. A copy of Test Article Premix (T.A.P.) and/or T.A.P. Sample Transmittal (or custody) record is attached.

#### Sample Disposal

6.1 Samples or parts of samples will be returned to the Safety Officer for disposal.

Figure 1D.1  
TEST ARTICLE PREMIX (T.A.P.) AND/OR T.A.P. SAMPLE TRANSMITTAL  
(OR CUSTODY) RECORD

Project No. - Study No(s). \_\_\_\_\_ T.A.P. \_\_\_\_\_

Lot No. \_\_\_\_\_ T.A.P. Prepared (K.O.P.) Date/By: \_\_\_\_\_

Intended Concentration: \_\_\_\_\_ % Quantity (kg): \_\_\_\_\_ 5002 Lot No.: \_\_\_\_\_

Logbook No./Page No. \_\_\_\_\_ Storage Conditions of T.A.P. (K.O.P.): \_\_\_\_\_

T.A.P. Received (L.S.R.) Date/By: \_\_\_\_\_ Logbook No./Page No.: \_\_\_\_\_

Storage Conditions of T.A.P. in L.S.R.: \_\_\_\_\_

T.A.P. SAMPLING AND ANALYSIS

T.A.P. Sampled Date/By: \_\_\_\_\_ Logbook No./Page No.: \_\_\_\_\_

Witnessed By/Date: \_\_\_\_\_ Storage Conditions of T.A.P. Sample by Chemistry

Personnel: \_\_\_\_\_

Extraction Performed By/Date: \_\_\_\_\_ Logbook No./Page No.: \_\_\_\_\_

Analysis Performed By/Date: \_\_\_\_\_ Logbook No./Page No.: \_\_\_\_\_

Data Reviewed & Approved By/Date: \_\_\_\_\_

Analytical Report Prepared By/Date: \_\_\_\_\_ Checked By/Date: \_\_\_\_\_

Quality Assurance Check By/Date: \_\_\_\_\_

Analytical Report Received (L.S.R. Supervisor) By/Date: \_\_\_\_\_

T.A.P. First Used By/Date: \_\_\_\_\_ T.A.P. Last Used By/Date: \_\_\_\_\_

Excess T.A.P. Submitted to K.O.P. Personnel for Disposal by Burning By/Date: \_\_\_\_\_

\_\_\_\_\_ Quantity (kg) \_\_\_\_\_

Excess T.A.P. Received By/Date: \_\_\_\_\_

Key

K.O.P. = Kingsbury Ordinance Plant, La Porte, IN.  
5002 = Purina Certified Rodent Chow 5002

APPENDIX II  
5002 CERTIFICATION PROFILE/ANALYSIS

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## Certified Rodent Chow® #5002



Certified Rodent Chow is a controlled constant nutrient rodent diet recommended for life cycle feeding of rats, mice and hamsters. A sample of this product has been assayed for certain environmental contaminants. Maximum diet control is achieved by pre-analysis monitoring of key nutrients and certain contaminating substances. Diet control helps minimize variables in research studies.

### Guaranteed Analysis

Crude protein, min.	20.0%
Crude fat, min.	4.5%
Crude fiber, max.	6.0%
Ash, max.	8.0%
Added minerals, max.	2.5%

### Certification Profile

Based on analysis of a composite sample, each package contains not more than these maximum concentrations of the following substances:

Heavy Metals	Maximum Concentration
Arsenic	10 ppm
Cadmium	5 ppm
Lead	15 ppm
Mercury	2 ppm
Aflatoxin	10 ppb
<b>Chlorinated Hydrocarbons and PCB</b>	
Aldrin	05 ppm
Dieldrin	05 ppm
Endrin	05 ppm
Heptachlor	05 ppm
Heptachlor Epoxide	05 ppm
Lindane	05 ppm
Chlordane	05 ppm
DDT Related Substances	15 ppm
PCB	15 ppm
<b>Organophosphates</b>	
Thimet	5 ppm
Diazinon	5 ppm

Disulfoton	.5 ppm
Methyl Parathion	.5 ppm
Malathion	.5 ppm
Parathion	.5 ppm
Thiodan	.5 ppm
Ethion	.5 ppm
Trithion	.5 ppm

**Drugs and Estrogens** — This product is manufactured in a plant where antibiotics and synthetic estrogens are strictly prohibited. Routine monitoring for over a decade has not shown any detectable levels of these substances. No drugs or synthetic estrogens are permitted in manufacturing, storage or warehousing to avoid any contamination of Lab Chows diets.

**Other Contaminants** — If additional contaminants assays are needed, these can be obtained by ordering such analyses prior to manufacture. Cost of these additional assays will be charged based on current analyses rates at time of assay.

### Ingredients:

Ground extruded corn, soybean meal, ground oat groats, dried beet pulp, wheat germ meal, fish meal, brewers dried yeast, dehydrated alfalfa meal, cane molasses, dried milk products, meat and bone meal, wheat middlings, animal fat preserved with BHA, calcium carbonate, dicalcium phosphate, salt, animal liver meal, calcium iodate, vitamin B<sub>12</sub> supplement, methionine hydroxy analogue, calcium, calcium pantothenate, choline chloride, folic acid, riboflavin supplement, thiamin, niacin, pyridoxine hydrochloride, ferrous sulfate, vitamin A supplement, D activated animal steroid, vitamin E supplement, iron oxide, manganese oxide, cobalt carbonate, copper oxide, zinc oxide.

### Chemical Composition\*

<b>Nutrients**</b>	
Protein %	20.0
Arginine %	1.13
Cystine %	.27
Glycine %	.86
Histidine %	.49
Isoleucine %	1.03
Leucine %	1.58
Lysine %	1.18
Methionine %	.43
Phenylalanine %	.88
Threonine %	.78
Tryptophan %	.24
Valine %	1.05

Fat %	4.5
Fiber %	4.6
TDN %	77.0
NFE (by difference) %***	55.1
Gross Energy, KCal/gm	4.1
Ash %	5.8
Calcium %	.90
Phosphorus %	.70
Potassium %	.86
Magnesium %	.21
Sodium %	.30
Chlorine %	.47
Fluorine, ppm	—
Iron, ppm	180.0
Zinc, ppm	52.4
Manganese, ppm	63.0
Copper, ppm	13.3
Cobalt, ppm	.6
Iodine, ppm	1.2
<b>Vitamins</b>	
Carotene, ppm	5.6
Menadione (added), ppm	—
Thiamin, ppm	13.3
Riboflavin, ppm	8.0
Niacin, ppm	60.0
Pantothenic Acid, ppm	17.0
Choline, ppm x100	18.0
Folic Acid, ppm	.40
Pyridoxine, ppm	6.0
Biotin, ppm	.13
B-12, mcg/lb	.90
Vitamin A, IU/gm	17.6
Vitamin D, IU/gm	2.2
Alpha-tocopherol, IU/lb	30.0
Ascorbic Acid, mg/gm	—

### Feeding Directions

Feed ad libitum to rodents. Plenty of fresh, clean water should be available to the animals at all times.

**Rats** — Adult rats will eat 12 to 15 grams of diet per day. Feeders in rat cages should be designed to hold two to three days supply of feed at one time.

**Mice** — Adult mice will eat 4 to 5 grams of pelleted ration daily. Some of the larger strains may eat as much as 8 grams per day per animal. Feed should be available on a free choice basis in wire feeders above the floor of the cage.

**Hamsters** — Adults will eat 10-14 grams per day.

**Lab Chows.**  
The Control Factor.

\*Based on latest ingredient analysis information. Since nutrient composition of natural ingredients varies, analysis will differ accordingly.

# TEI ANALYTICAL, INC.

460 SOUTH NORTHWEST HIGHWAY • PARK RIDGE, ILLINOIS • 60068 • 312/696-2070

October 29, 1982

## LABORATORY REPORT

#9166

Page 1 of 2 pages

Dr. Marianna Furedi  
IIT Research Institute  
10 West 35th Street  
Chicago, Illinois 60616

P.O. #16092

Sample received  
June 9, 1982

[TEI-14080] Rodent Chow #5002 - March 24-8226

	<u>Result in ppm</u>	<u>* Method</u>
Nitrate Nitrogen	19.0	7.030
Nitrite Nitrogen	0.24	7.030
Mercury	< 0.05	25.103
Arsenic	0.014	JAQAC 60.813
Cadmium	< 0.05	25.020
Lead	0.61	25.058
Penicillin	< 10	Snell & Snell, Colorimetric Methods of Analysis Vol IVAAA, p. 221
BHT	< 1.0	JAQAC 60.505
BHA	< 1.0	JAQAC 60.505
Total Estrogen	not detected	39.000
Chlortetracycline	to be reported at a later date	-
Aflatoxin B <sub>1</sub>	< 0.005	26.003
Aflatoxin B <sub>2</sub>	0.01 - 0.02	26.003
Aflatoxin G <sub>1</sub>	< 0.005	26.003
Aflatoxin G <sub>2</sub>	< 0.005	26.003
Dieldrin	< 0.001	29.000
Endrin	< 0.001	29.000
Aldrin	< 0.001	29.000
Heptachlor Epoxide	< 0.001	29.000
BHC	< 0.001	29.000

*g. e. marks*

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## LABORATORY REPORT

October 29, 1982

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Page 2 of 2 pages

Dr. Marianna Furedi  
IIT Research Institute  
10 West 35th Street  
Chicago, Illinois 60616

P.O. #16092

Sample received  
June 9, 1982

[TEI-14080] Rodent Chow #5002 - March 24-8226

	<u>Result in ppm</u>	<u>* Method</u>
Lindane	< 0.001	29.000
DDT Total	< 0.001	29.000
Aethoxychlor	< 0.001	29.000
Chlordane	< 0.001	29.000
Nirex	< 0.001	29.000
Toxaphene	< 0.001	29.000
Strobane	< 0.001	29.000
HCB	< 0.001	29.000
PCE	< 0.001	29.000
Polychlorinated Dioxins	< 0.006	28.128
Parathion	< 0.001	29.000
Methyl Parathion	< 0.001	29.000
Enthion	< 0.001	29.000
Carbophenothion	< 0.001	29.000
Malathion	< 0.001	29.000
konnel	< 0.001	29.000
Diazinon	< 0.001	29.000
Disulfeton	< 0.001	29.000
Phorate	< 0.001	29.000

\*Official Methods of Analysis of the Association of Official  
Analytical Chemists.

APPENDIX III  
TEI ANALYTICAL CHEMISTRY METHODS

ANALYTICAL PROCEDURES USED BY TEI ANALYTICAL, INC. PARK RIDGE, IL  
TO ANALYZE PURINA CERTIFIED RODENT CHOW NO. 5002 FOR IMPURITIES

<u>Procedure</u>	<u>Limit of Detectability</u>	<u>References</u>
Chlorinated Pesticide Screen	10 ppb	A.O.A.C. 29.000
Phosphated Pesticide Screen	50 ppb	A.O.A.C. 29.000
Polychlorinated Biphenyls (PCBs)	100 ppb	A.O.A.C. 29.000
Hexa-, hepta-, octachlorodibenzo-p-dioxin	<100 ppb	A.O.A.C. 28.128
Heavy Metals		
Arsenic	1.0 ppb	J.A.O.A.C. 60.813
Cadmium	10 ppb	A.O.A.C. 25.026
Lead	10 ppb	A.O.A.C. 25.058
Mercury	<1 ppb	A.O.A.C. 25.103
Nitrates	<1.0 ppm	A.O.A.C. 7.030
Nitrites	<1.0 ppm	A.O.A.C. 7.030
Aflatoxins	2.0 ppb	A.O.A.C. 26.003
Penicillin	<2.0 ppm	Snell and Snell, Colorimetric Methods of Analysis Vol IV AAA, pg. 221
Chlortetracycline	10.0 ppm	Snell and Snell, Colorimetric Methods of Analysis Vol IV AAA, pg. 184
Butylated hydroxytoluene	1.0 ppm	J.A.O.A.C. 60.505
Butylated hydroxyanisole	1.0 ppm	J.A.O.A.C. 60.505
Estrogens	-----	A.O.A.C. 39.000

A.O.A.C. - Official methods of analysis of the Association of Official  
Analytical Chemists.

APPENDIX IV  
HEMATOLOGY METHODOLOGY

### Hemoglobin

Cyanmethemoglobin method  
Coulter Counter Model S System

### Hematocrit

Indirect method; calculated value based on erythrocyte  
count and mean corpuscular volume  
Coulter Counter Model S System

### Erythrocyte Count

Electronic Counting Procedure  
Coulter Counter Model S System

### Mean Corpuscular Volume (MCV)

Electronic Sizing Procedure  
Coulter Counter Model S System

### Mean Corpuscular Hemoglobin (MCH)

Indirect method; calculated value based on erythrocyte  
count and hemoglobin  
Coulter Counter Model S System

### Mean Corpuscular Hemoglobin Concentration (MCHC)

Indirect method; calculated value based on hematocrit  
and hemoglobin  
Coulter counter Model S System

### Leukocyte Count

Electronic Counting Procedure  
Coulter Counter Model S System

### Leukocyte Differential Count

Neutrophils - Immature  
Neutrophils - Mature  
Monocytes  
Basophils  
Lymphocytes  
Eosinophils  
Wright stain procedure  
Schalm, O.W., Jain, N.C. and Carroll, E.J.  
Veterinary Hematology, Color Plates Chapter,  
3rd Edition, Lee and Febiger, 1975.

### Nucleated RBCs

Wright stain procedure

Schalm, O.W., Jain, N.C. and Carroll, E.J.  
Veterinary Hematology, Color Plates Chapter,  
3rd Edition, Lee and Febiger, 1975.

### Platelet Count

Direct Method

Schalm, O.W., Jain, N.C. and Carroll, E.J.  
Veterinary Hematology, p. 69, 3rd Edition,  
Lee and Febiger, 1975.

### Reticulocyte Count

New methylene blue staining procedure

Brecher, G. Am. J. Clin. Path. 19,  
895, 1949.

### Methemoglobin

Cyanomethemoglobin method

Evelyn, K.A. and Malloy, H.T. J. Biol.  
Chem. 126, 655, 1938.

APPENDIX V  
CLINICAL CHEMISTRY METHODOLOGY

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## Glucose

Hexokinase method

Centriflchem Centrifugal Analyzer System  
Neeley, W.E. Clin. Chem. 18, 509, 1972.

## Urea Nitrogen (BUN)

Modified urease technique

Centriflchem Centrifugal Analyzer System  
Karmen, A. J. Clin. Invest. 34, 131, 1955

## Glutamic-Pyruvic Transaminase (SGPT)

Modified Wroblewski and LaDue technique

Centriflchem Centrifugal Analyzer System  
Henry, R.J., Chiamori, N., Golub, O.J., and  
Berkman, S. Am. J. Clin. Path. 34, 381, 1960.

## Lactic Dehydrogenase (LDH)

Lactate pyruvate technique

Henry, R.J., Chiamori, N., Golub, O.J. and  
Berkman, S. Am. J. Clin. Path. 34, 381, 1960.

## Alkaline Phosphatase

Modified Bessey-Lowry technique

Neumann, H. and Van Vreedendaal, M. Clin. Chem.  
Acta. 17, 183, 1967.

## Chloride

Silver chloride precipitation method

Chloride Meter (Corning Medical Co.)  
Catlove, E., Trantham, V. and Bowman, R.L. J.  
Lab. Clin. Med. 50, 58, 1958.

## Sodium

Flame photometry

Klina Flame Photometer (Beckman)

## Potassium

Flame photometry

Klina Flame Photometer (Beckman)

## Total Protein

Biuret technique

Centriflchem Centrifugal Analyzer system  
Falling, I.F., Jr., Buckley, M.W. and Zak, B.  
Am. J. Clin. Path. 33, 83, 1960.

### Albumin

Bromocresol green method  
Centrifichem Centrifugal Analyzer System  
Rodkey, I.L. Clin. Chem. 11, 478, 1965.

### Triglycerides

Tetrazolium salt reduction method  
Centrifichem Centrifugal Analyzer System  
Klotzsch, S., Serricchio, M. and Furedi, R.  
Advances in Automated Analysis  
Vol. 1, Mediad Inc., Tarrytown, N.Y. P.111, 1973.

### Creatine Phosphokinase (CPK)

Modified Oliver method  
Centrifichem Centrifugal Analyzer System  
Oliver, I.T. Biochem. J. 61, 116, 1955.

### Cholesterol

Cholesterol esterase-cholesterol oxidase method  
Centrifichem Centrifugal Analyzer System  
Rosesclaw, P., Bernt, E. and Gruber, W. Z.F  
Lin. Che. u. Klin. Biochem. 12, 226, 1974.

### Calcium

Allizarin method  
Centrifichem Centrifugal Analyzer System  
Connerty, H.V. and Briggs, A.R. Clin. Chem.  
11, 716, 1965.

### Bilirubin, Total

Modified Walters and Gerarde method  
Centrifichem Centrifugal Analyzer System  
Walters, M. and Gerarde, H. Microchem. J.  
15, 231, 1970.

### Bilirubin, Direct

Modified Walters and Gerarde method  
Centrifichem Centrifugal Analyzer System  
Walters, M. and Gerarde, H. Microchem. J.  
15, 231, 1970.

APPENDIX VI  
INDIVIDUAL ANIMAL DATA

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Table VI.1

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
SURVIVAL RATE DATA

A N T I M A I N O	T R G R O U P	S E X	D A T E	E N T	A N T I M A L	T R G R O U P	S E X	D A T E	E N T	A N T I M A L	T R G R O U P	S E X	D A T E	E N T
001	1	M	03-11-82	1	002	1	M	03-09-83	1	003	1	M	03-09-83	1
004	1	M	09-11-81	1	005	1	M	03-09-83	1	006	1	M	09-10-81	1
007	1	M	01-10-83	0	008	1	M	03-09-83	1	009	1	M	03-04-83	0
010	1	M	03-09-83	1	011	1	M	03-12-82	1	012	1	M	03-11-82	1
013	1	M	09-10-81	1	014	1	M	01-12-83	0	015	1	M	03-09-83	1
016	1	M	03-09-83	1	017	1	M	09-09-81	1	018	1	M	03-11-82	1
019	1	M	12-02-81	0	020	1	M	03-12-82	1	021	1	M	03-09-83	1
022	1	M	09-09-81	1	023	1	M	03-09-83	1	024	1	M	03-09-83	1
025	1	M	03-09-83	1	026	1	M	03-09-83	1	027	1	M	03-10-82	1
028	1	M	12-10-82	0	029	1	M	02-14-83	0	030	1	M	03-09-83	1
031	1	M	12-20-82	0	032	1	M	10-11-82	0	033	1	M	03-09-83	1
034	1	M	12-21-82	0	035	1	M	03-09-83	1	036	1	M	03-09-83	1
037	1	M	03-09-83	1	038	1	M	12-10-82	0	039	1	M	03-10-82	1
040	1	M	03-09-83	1	041	1	M	03-09-83	1	042	1	M	03-09-83	1
043	1	M	03-07-83	0	044	1	M	03-09-83	1	045	1	M	03-10-82	1
046	1	M	09-09-81	1	047	1	M	09-11-81	1	048	1	M	03-09-83	1
049	1	M	03-09-83	1	050	1	M	03-12-82	1	051	1	M	03-09-83	1
052	1	M	03-09-83	1	053	1	M	02-17-83	0	054	1	M	10-29-82	0
055	1	M	03-09-83	1	056	1	M	03-09-83	1	057	1	M	02-03-83	0
058	1	M	01-20-83	0	059	1	M	10-03-82	0	060	1	M	09-10-81	1
061	1	M	03-09-83	1	062	1	M	03-09-83	1	063	1	M	12-27-82	0
064	1	M	11-12-82	0	065	1	M	03-09-83	1	066	1	M	03-09-83	1
067	1	M	03-12-82	1	068	1	M	09-11-81	1	069	1	M	01-20-83	0
070	1	M	09-11-81	1	071	1	M	01-25-83	0	072	1	M	02-09-83	0
073	1	M	03-09-83	1	074	1	M	01-24-83	0	075	1	M	03-09-83	1
076	1	F	03-09-83	1	077	1	F	03-09-83	1	078	1	F	03-12-82	1
079	1	F	11-23-82	0	080	1	F	03-07-83	0	081	1	F	03-09-83	1
082	1	F	03-09-83	1	083	1	F	03-09-83	1	084	1	F	03-09-83	1
085	1	F	03-09-83	1	086	1	F	03-10-82	1	087	1	F	03-12-82	1
088	1	F	02-09-83	0	089	1	F	09-09-81	1	090	1	F	09-09-81	1
091	1	F	03-09-83	1	092	1	F	03-09-83	1	093	1	F	03-09-83	1
094	1	F	03-09-83	1	095	1	F	03-12-82	1	096	1	F	03-09-83	1
097	1	F	08-20-82	0	098	1	F	09-11-81	1	099	1	F	03-09-83	1
100	1	F	12-05-82	0	101	1	F	09-10-81	1	102	1	F	03-09-83	1
103	1	F	03-02-83	0	104	1	F	03-09-83	1	105	1	F	03-10-82	1
106	1	F	12-18-82	0	107	1	F	03-09-83	1	108	1	F	08-18-82	0
109	1	F	01-16-83	0	110	1	F	02-28-83	0	111	1	F	09-11-81	1
112	1	F	03-09-83	1	113	1	F	03-09-83	1	114	1	F	03-09-83	1
115	1	F	03-12-82	1	116	1	F	03-09-83	1	117	1	F	03-09-83	1
118	1	F	02-16-83	0	119	1	F	09-03-81	0	120	1	F	03-09-83	1
121	1	F	03-09-83	1	122	1	F	03-09-83	1	123	1	F	03-09-83	1
124	1	F	03-11-82	1	125	1	F	03-09-83	1	126	1	F	03-09-83	1

EVENT CODE IS: O-DIED 1-SCHEDULED SACRIFICED

Table VI.1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
SURVIVAL RATE DATA

A N I T M A L N O	T R G R O U P	D A T E	S E X	F V E N T	A N I T M A L N O	T R G R O U P	D A T E	S E X	F V E N T	A N I T M A L N O	T R G R O U P	D A T E	S E X	F V E N T
127	1	03-09-83	F	1	129	1	03-09-83	F	1	129	1	03-09-83	F	1
130	1	03-10-82	F	1	131	1	03-09-83	F	1	132	1	03-09-83	F	1
133	1	09-11-81	F	1	134	1	02-22-83	F	1	135	1	03-09-83	F	1
136	1	09-09-81	F	1	137	1	02-01-83	F	1	138	1	09-11-81	F	1
139	1	01-27-83	F	1	140	1	03-09-83	F	1	141	1	03-11-82	F	1
142	1	09-23-82	F	1	143	1	03-11-82	F	1	144	1	03-09-83	F	1
145	1	09-10-81	F	1	146	1	03-09-83	F	1	147	1	03-01-83	F	1
148	1	09-10-81	F	1	149	1	03-09-83	F	1	150	1	03-09-83	F	1
151	2	03-09-83	M	1	152	2	03-10-82	M	1	153	2	03-09-83	M	1
154	2	10-31-82	M	1	155	2	03-09-83	M	1	156	2	09-08-82	M	1
157	2	03-09-83	M	1	158	2	03-09-83	M	1	159	2	09-10-81	M	1
160	2	01-21-83	M	1	161	2	12-16-82	M	1	162	2	03-09-83	M	1
163	2	03-09-83	M	1	164	2	01-06-83	M	1	165	2	09-10-81	M	1
166	2	03-09-83	M	1	167	2	09-11-81	M	1	168	2	02-24-83	M	1
169	2	01-17-83	M	1	170	2	03-09-83	M	1	171	2	03-09-83	M	1
172	2	03-11-82	M	1	173	2	03-07-83	M	1	174	2	03-09-83	M	1
175	2	03-09-83	M	1	176	2	09-09-81	M	1	177	2	03-09-83	M	1
178	2	03-03-83	M	1	179	2	03-09-83	M	1	180	2	03-12-82	M	1
181	2	11-24-82	M	1	182	2	03-09-83	M	1	183	2	06-28-82	M	1
184	2	02-12-82	M	1	185	2	03-09-83	M	1	186	2	03-09-83	M	1
187	2	03-10-82	M	1	188	2	12-15-82	M	1	189	2	10-21-82	M	1
190	2	03-09-83	M	1	191	2	03-11-82	M	1	192	2	09-09-81	M	1
193	2	09-29-82	M	1	194	2	03-10-82	M	1	195	2	03-09-83	M	1
196	2	03-03-83	M	1	197	2	03-09-83	M	1	198	2	03-09-83	M	1
199	2	03-09-83	M	1	200	2	09-09-81	M	1	201	2	10-25-82	M	1
202	2	03-09-83	M	1	203	2	03-12-82	M	1	204	2	03-11-82	M	1
205	2	09-09-81	M	1	206	2	09-20-82	M	1	207	2	01-19-83	M	1
208	2	03-09-83	M	1	209	2	03-10-82	M	1	210	2	09-11-81	M	1
211	2	10-26-82	M	1	212	2	03-01-83	M	1	213	2	03-05-83	M	1
214	2	03-12-82	M	1	215	2	03-09-83	M	1	216	2	03-09-83	M	1
217	2	03-09-83	M	1	218	2	09-11-81	M	1	219	2	03-09-83	M	1
220	2	09-10-81	M	1	221	2	03-09-83	M	1	222	2	10-29-82	M	1
223	2	03-09-83	M	1	224	2	12-26-82	M	1	225	2	07-18-82	M	1
226	2	06-18-82	F	1	227	2	03-09-83	F	1	228	2	12-21-82	F	1
229	2	03-09-83	F	1	230	2	01-16-83	F	1	231	2	11-18-82	F	1
232	2	03-09-83	F	1	233	2	03-09-83	F	1	234	2	03-09-83	F	1
235	2	03-09-83	F	1	236	2	03-09-83	F	1	237	2	03-09-83	F	1
238	2	03-09-83	F	1	239	2	03-10-82	F	1	240	2	03-09-83	F	1
241	2	03-09-83	F	1	242	2	09-10-81	F	1	243	2	03-09-83	F	1
244	2	03-10-82	F	1	245	2	03-09-83	F	1	246	2	03-12-82	F	1
247	2	03-09-83	F	1	248	2	02-02-83	F	1	249	2	03-09-83	F	1
250	2	01-28-83	F	1	251	2	03-09-83	F	1	252	2	03-09-83	F	1

EVENT CODE IS 0-01FD 1-SCHEDULED SACRIFICED

Table VI.1 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 SURVIVAL RATE DATA

A N I T M A L N O	T R G R O U P	S E X	D A T E	F E E T N	A N I T M A L N O	T R G R O U P	S E X	D A T E	F E E T N	A N I T M A L N O	T R G R O U P	S E X	D A T E	F E E T N
253	2	F	03-09-83	1	254	2	F	03-09-83	1	255	2	F	03-09-83	1
256	2	F	03-09-83	1	257	2	F	03-11-82	1	258	2	F	12-01-82	0
259	2	F	03-09-83	1	260	2	F	03-09-83	1	261	2	F	03-09-83	1
262	2	F	03-11-82	1	263	2	F	03-09-83	1	264	2	F	08-12-82	0
265	2	F	03-09-83	1	266	2	F	03-09-83	1	267	2	F	09-09-81	1
268	2	F	09-11-81	1	269	2	F	03-09-83	1	270	2	F	01-18-81	0
271	2	F	09-10-81	1	272	2	F	03-09-83	1	273	2	F	03-12-82	1
274	2	F	03-09-83	1	275	2	F	09-10-81	1	276	2	F	01-04-81	1
277	2	F	03-12-82	1	278	2	F	03-09-83	1	279	2	F	03-12-82	1
280	2	F	09-09-81	1	281	2	F	11-03-82	0	282	2	F	03-10-82	1
283	2	F	03-09-83	1	284	2	F	03-09-83	1	285	2	F	03-09-83	1
286	2	F	01-19-83	0	287	2	F	09-11-81	1	288	2	F	03-09-83	1
289	2	F	01-01-83	0	290	2	F	03-09-83	1	291	2	F	03-09-83	1
292	2	F	03-09-83	1	293	2	F	03-09-83	1	294	2	F	02-19-83	0
295	2	F	03-09-83	1	296	2	F	03-09-83	1	297	2	F	09-11-81	1
298	2	F	09-11-81	1	299	2	F	07-14-81	0	300	2	F	03-11-82	1
301	3	M	03-09-83	1	302	3	M	09-10-81	1	303	3	M	09-10-81	1
304	3	M	03-01-83	0	305	3	M	01-21-82	0	306	3	M	03-09-83	1
307	3	M	03-09-83	1	308	3	M	03-09-83	1	309	3	M	11-05-82	0
310	3	M	09-11-81	1	311	3	M	01-19-83	0	312	3	M	09-09-81	1
313	3	M	03-09-83	1	314	3	M	02-12-83	0	315	3	M	03-09-83	1
316	3	M	03-11-82	1	317	3	M	11-08-82	0	318	3	M	03-09-83	1
319	3	M	03-09-83	1	320	3	M	03-10-82	1	321	3	M	03-09-83	1
322	3	M	03-11-82	1	323	3	M	03-03-83	0	324	3	M	09-11-81	1
325	3	M	12-11-82	0	326	3	M	02-10-83	0	327	3	M	09-11-81	1
328	3	M	03-09-83	1	329	3	M	02-27-83	0	330	3	M	12-31-82	0
331	3	M	12-09-82	0	332	3	M	03-10-82	1	333	3	M	08-18-82	0
334	3	M	10-08-82	0	335	3	M	03-10-82	1	336	3	M	03-09-83	1
337	3	M	06-03-82	0	338	3	M	03-11-82	1	339	3	M	03-12-82	1
340	3	M	03-09-83	1	341	3	M	03-09-83	1	342	3	M	03-09-83	1
343	3	M	11-01-82	0	344	3	M	03-12-82	1	345	3	M	03-07-83	0
346	3	M	09-09-81	1	347	3	M	03-09-83	1	348	3	M	03-09-83	1
349	3	M	01-26-83	0	350	3	M	12-07-82	0	351	3	M	09-10-82	1
352	3	M	09-10-81	1	353	3	M	09-15-82	0	354	3	M	03-09-83	1
355	3	M	03-09-83	1	356	3	M	03-09-83	1	357	3	M	03-09-83	1
358	3	M	03-11-82	1	359	3	M	03-09-83	1	360	3	M	03-09-83	1
361	3	M	01-10-83	0	362	3	M	12-02-82	0	363	3	M	10-28-82	0
364	3	M	03-09-83	1	365	3	M	03-09-83	1	366	3	M	09-09-81	1
367	3	M	11-08-82	0	368	3	M	03-09-83	1	369	3	M	02-10-83	0
370	3	M	03-09-83	1	371	3	M	12-06-82	0	372	3	M	09-09-82	0
373	3	M	12-04-82	0	374	3	M	09-10-81	1	375	3	M	03-09-83	1
376	3	F	03-09-83	1	377	3	F	09-11-81	1	378	3	F	09-10-81	1

EVENT CODE IS O-DIED 1-SCHEDULED SACRIFICED

Table VI.1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISHER 314 RAT  
SURVIVAL RATE DATA

A N I T M A L N O	T R G R O U P	S E X	D A T E	F V N T	A N I T M A L N O	T R G R O U P	S E X	D A T E	F V N T	A N I T M A L N O	T R G R O U P	S E X	D A T E	F V N T
379	3	F	03-09-83	1	380	3	F	03-09-83	1	381	3	F	03-09-83	1
382	3	F	03-09-83	1	383	3	F	09-11-81	1	384	3	F	03-09-83	1
385	3	F	03-09-83	1	386	3	F	09-09-81	1	387	3	F	01-18-83	0
388	3	F	03-09-83	1	389	3	F	02-09-83	1	390	3	F	03-09-83	1
391	3	F	03-09-83	1	392	3	F	03-09-83	1	393	3	F	08-19-82	0
394	3	F	09-11-81	1	395	3	F	11-08-82	0	396	3	F	03-10-82	1
397	3	F	11-01-82	0	398	3	F	03-09-83	1	399	3	F	01-06-83	0
400	3	F	03-09-83	1	401	3	F	03-09-83	1	402	3	F	03-09-83	1
403	3	F	03-09-83	1	404	3	F	01-21-83	0	405	3	F	03-09-83	1
406	3	F	03-10-82	1	407	3	F	03-09-83	1	408	3	F	03-11-82	1
409	3	F	03-09-83	1	410	3	F	03-09-83	1	411	3	F	01-23-83	0
412	3	F	07-25-82	0	413	3	F	03-09-83	1	414	3	F	03-10-82	1
415	3	F	03-12-82	1	416	3	F	03-09-83	1	417	3	F	12-21-82	0
418	3	F	03-09-83	1	419	3	F	03-09-83	1	420	3	F	09-09-81	1
421	3	F	03-09-83	1	422	3	F	03-09-83	1	423	3	F	03-09-83	1
424	3	F	03-09-83	1	425	3	F	03-12-82	1	426	3	F	03-09-83	1
427	3	F	03-09-83	1	428	3	F	09-09-81	1	429	3	F	03-12-82	1
430	3	F	03-09-83	1	431	3	F	03-09-83	1	432	3	F	03-09-83	1
433	3	F	09-09-81	1	434	3	F	03-11-82	1	435	3	F	12-29-82	0
436	3	F	03-09-83	1	437	3	F	02-21-83	0	438	3	F	11-12-82	0
439	3	F	03-01-83	0	440	3	F	03-09-83	1	441	3	F	03-09-83	1
442	3	F	03-11-82	1	443	3	F	03-09-83	1	444	3	F	09-10-81	1
445	3	F	03-09-83	1	446	3	F	03-09-83	1	447	3	F	03-09-83	1
448	3	F	09-10-81	1	449	3	F	01-05-83	0	450	3	F	03-10-82	1
451	4	M	03-09-83	1	452	4	M	03-09-83	1	453	4	M	03-09-83	1
454	4	M	03-09-83	1	455	4	M	09-11-81	1	456	4	M	03-11-82	1
457	4	M	10-13-82	0	458	4	M	03-10-82	1	459	4	M	03-09-83	1
460	4	M	11-29-82	0	461	4	M	03-01-83	0	462	4	M	03-07-83	0
463	4	M	03-11-82	1	464	4	M	09-09-81	1	465	4	M	01-14-83	0
466	4	M	12-26-82	0	467	4	M	03-09-83	1	468	4	M	01-29-83	0
469	4	M	02-23-83	0	470	4	M	03-12-82	1	471	4	M	09-18-82	0
472	4	M	09-11-81	1	473	4	M	10-05-82	0	474	4	M	03-09-83	1
475	4	M	03-09-83	1	476	4	M	03-12-82	1	477	4	M	03-09-83	1
478	4	M	03-09-83	1	479	4	M	01-31-83	0	480	4	M	02-18-83	0
481	3	M	11-24-82	0	482	4	M	12-22-82	0	483	4	M	09-09-81	1
484	4	M	03-09-83	1	485	4	M	03-11-82	1	486	4	M	03-10-82	1
487	4	M	03-09-83	1	488	4	M	03-09-83	1	489	4	M	03-09-83	1
490	4	M	09-10-81	1	491	4	M	02-07-83	0	492	4	M	03-18-82	0
493	4	M	03-09-81	1	494	4	M	03-09-83	1	495	4	M	01-03-83	0
496	3	M	09-10-81	1	497	4	M	03-10-82	1	498	4	M	03-09-83	1
499	4	M	03-09-81	1	500	4	M	05-31-82	0	501	4	M	03-05-83	0
502	4	M	03-09-83	1	503	4	M	02-09-83	0	504	4	M	03-09-83	1

EVENT CODE IS 0 DIED 1-SCHEDULED SACRIFICED

Table VI.1 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISHER 344 RAT  
 SURVIVAL RATE DATA

A N I T M A L N O	T R G R O U P	S E X	D O S E	F E E	A N I T M A L N O	T R G R O U P	S E X	D O S E	F E E	A N I T M A L N O	T R G R O U P	S E X	D O S E	F E E
505	4	M	02-03-83	0	506	4	M	12-07-82	0	507	4	M	03-09-83	1
508	4	M	03-12-82	1	509	4	M	03-10-81	1	510	4	M	03-09-83	1
511	4	M	09-09-82	0	512	4	M	03-09-83	1	513	4	M	09-09-81	1
514	4	M	03-09-83	1	515	4	M	03-09-81	1	516	4	M	09-11-81	1
517	4	M	03-10-82	1	518	4	M	03-09-83	1	519	4	M	03-09-83	1
520	4	M	03-09-83	1	521	4	M	03-09-83	1	522	4	M	12-21-82	0
523	4	M	03-09-83	1	524	4	M	03-09-83	1	525	4	M	03-09-83	1
526	4	F	12-17-82	0	527	4	F	03-12-82	1	528	4	F	03-09-83	1
529	4	F	03-11-82	1	530	4	F	03-09-83	1	531	4	F	03-10-82	1
532	4	F	03-09-83	1	533	4	F	03-09-83	1	534	4	F	01-08-83	0
535	4	F	03-09-83	1	536	4	F	03-10-81	1	537	4	F	03-09-83	1
538	4	F	03-11-82	1	539	4	F	03-09-83	1	540	4	F	03-09-83	1
541	4	F	03-09-83	1	542	4	F	03-12-82	1	543	4	F	09-11-81	1
544	4	F	09-11-81	1	545	4	F	03-09-83	1	546	4	F	03-09-83	1
547	4	F	03-09-83	1	548	4	F	09-10-81	1	549	4	F	03-09-83	1
550	4	F	03-09-83	1	551	4	F	12-09-82	0	552	4	F	09-10-81	1
553	4	F	03-09-83	1	554	4	F	03-09-83	1	555	4	F	03-11-82	1
556	4	F	03-09-83	1	557	4	F	03-12-82	1	558	4	F	03-09-83	1
559	4	F	03-09-83	1	560	4	F	03-12-82	1	561	4	F	09-11-81	1
562	4	F	03-09-83	1	563	4	F	03-09-83	1	564	4	F	03-10-82	1
565	4	F	03-09-83	1	566	4	F	03-10-82	1	567	4	F	09-09-81	1
568	4	F	03-09-83	1	569	4	F	03-09-83	1	570	4	F	03-09-83	1
571	4	F	03-09-83	1	572	4	F	03-09-83	1	573	4	F	03-09-83	1
574	4	F	03-09-83	1	575	4	F	03-09-83	1	576	4	F	03-09-83	1
577	4	F	03-09-83	1	578	4	F	03-09-83	1	579	4	F	03-09-83	1
580	4	F	02-08-83	0	581	4	F	03-06-83	0	582	4	F	02-11-83	0
583	4	F	09-24-82	0	584	4	F	03-09-83	1	585	4	F	09-09-81	1
586	4	F	03-09-83	1	587	4	F	03-09-83	1	588	4	F	09-11-81	1
589	4	F	03-09-83	1	590	4	F	03-09-83	1	591	4	F	03-09-83	1
592	4	F	03-09-83	1	593	4	F	03-09-83	1	594	4	F	03-09-83	1
595	4	F	02-21-83	0	596	4	F	03-09-83	1	597	4	F	03-09-83	1
598	4	F	03-09-83	1	599	4	F	09-09-81	1	600	4	F	03-09-83	1
601	5	M	03-09-83	1	602	5	M	03-09-83	1	603	5	M	03-10-82	1
604	5	M	03-10-82	1	605	5	M	03-11-82	1	606	5	M	03-09-83	1
607	5	M	03-09-83	1	608	5	M	03-09-83	1	609	5	M	03-09-83	1
610	5	M	03-09-83	1	611	5	M	03-09-83	1	612	5	M	03-09-83	1
613	5	M	03-09-83	1	614	5	M	03-10-82	1	615	5	M	03-09-83	1
616	5	M	03-09-83	1	617	5	M	03-09-83	1	618	5	M	03-09-83	1
619	5	M	03-12-82	1	620	5	M	03-09-83	1	621	5	M	03-09-83	1
622	5	M	03-07-83	0	623	5	M	03-09-83	1	624	5	M	03-09-83	1
625	5	M	09-09-81	1	626	5	M	03-09-83	1	627	5	M	01-21-83	0
628	5	M	08-06-82	0	629	5	M	03-09-83	1	630	5	M	09-11-81	1

Table VI.1 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISHER 344 RAT  
SURVIVAL RATE DATA

A N I M A L	T R E A T M E N T	S E X	D O S E	F U L L N A M E	A N I M A L	T R E A T M E N T	S E X	D O S E	F U L L N A M E	A N I M A L	T R E A T M E N T	S E X	D O S E	F U L L N A M E
631	5	M	02-06-83	0	632	5	M	03-09-83	1	633	5	M	06-04-82	0
634	5	M	03-11-82	1	635	5	M	03-09-83	1	636	5	M	12-03-82	0
637	5	M	03-09-83	1	638	5	M	03-09-83	1	639	5	M	03-09-83	1
640	5	M	03-09-83	1	641	5	M	09-10-81	1	642	5	M	03-09-83	1
643	5	M	09-11-81	1	644	5	M	03-04-83	0	645	5	M	03-09-83	1
646	5	M	03-09-83	1	647	5	M	03-09-83	1	648	5	M	03-09-83	1
649	5	M	11-12-82	0	650	5	M	01-03-83	0	651	5	M	03-09-83	1
652	5	M	03-09-83	1	653	5	M	03-09-83	1	654	5	M	01-30-83	0
655	5	M	02-21-83	0	656	5	M	03-09-83	1	657	5	M	09-09-81	1
658	5	M	09-11-81	1	659	5	M	03-09-83	1	660	5	M	03-11-82	1
661	5	M	03-09-83	1	662	5	M	03-09-83	1	663	5	M	09-10-81	1
664	5	M	09-09-81	1	665	5	M	03-09-83	1	666	5	M	03-11-82	1
667	5	M	03-09-83	1	668	5	M	03-12-82	1	669	5	M	03-09-83	1
670	5	M	01-16-83	0	671	5	M	09-10-81	1	672	5	M	01-07-83	0
673	5	M	03-09-83	1	674	5	M	09-10-81	1	675	5	M	02-13-83	0
676	5	F	03-09-83	1	677	5	F	03-09-83	1	678	5	F	01-06-83	0
679	5	F	09-09-81	1	680	5	F	03-09-83	1	681	5	F	03-09-83	1
682	5	F	03-09-83	1	683	5	F	03-09-83	1	684	5	F	03-09-83	1
685	5	F	02-02-83	0	686	5	F	03-09-83	1	687	5	F	03-11-82	1
688	5	F	03-09-83	1	689	5	F	09-11-81	1	690	5	F	03-10-82	1
691	5	F	03-09-83	1	692	5	F	03-09-83	1	693	5	F	09-30-82	0
694	5	F	03-09-83	1	695	5	F	09-11-81	1	696	5	F	03-09-83	1
697	5	F	09-09-81	1	698	5	F	03-09-83	1	699	5	F	03-07-83	0
700	5	F	03-09-83	1	701	5	F	03-09-83	1	702	5	F	03-09-83	1
703	5	F	03-09-83	1	704	5	F	03-09-83	1	705	5	F	03-09-83	1
706	5	F	02-18-83	0	707	5	F	03-09-83	1	708	5	F	02-20-83	0
709	5	F	03-09-83	1	710	5	F	03-09-83	1	711	5	F	03-09-83	1
712	5	F	03-09-83	1	713	5	F	09-10-81	1	714	5	F	03-09-83	1
715	5	F	03-09-83	1	716	5	F	09-09-81	1	717	5	F	03-12-82	1
718	5	F	03-12-82	1	719	5	F	09-11-81	1	720	5	F	03-11-82	1
721	5	F	12-06-82	0	722	5	F	03-09-83	1	723	5	F	09-10-81	1
724	5	F	03-09-83	1	725	5	F	03-11-82	1	726	5	F	03-09-83	1
727	5	F	03-11-82	1	728	5	F	03-09-83	1	729	5	F	03-09-83	1
730	5	F	03-10-82	1	731	5	F	03-09-83	1	732	5	F	03-09-83	1
733	5	F	03-09-83	1	734	5	F	02-05-83	0	735	5	F	03-12-82	1
736	5	F	03-09-83	1	737	5	F	09-10-81	1	738	5	F	03-09-83	1
739	5	F	09-10-81	1	740	5	F	03-09-83	1	741	5	F	03-09-83	1
742	5	F	01-09-83	1	743	5	F	03-09-83	1	744	5	F	03-09-83	1
745	5	F	03-09-83	1	746	5	F	03-09-83	1	747	5	F	03-10-82	1
748	5	F	03-09-83	1	749	5	F	03-09-83	1	750	5	F	03-09-83	1

EVENT CODE IS O-DIED 1-SCHEDULED SACRIFICED

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

--- = NO AVAILABLE DATA



Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L N O	T R E A T M E N T G R O U P	S E X	TEST WEEK																				
			-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25
81	1	F	95	113	131	146	151	158	163	168	171	182	184	188	190	191	192	190	192	201	205	206	209
82	1	F	81	95	110	125	129	136	147	149	151	153	163	162	164	166	167	173	181	184	188	192	196
83	1	F	94	108	124	137	143	152	157	166	169	170	175	175	183	184	183	187	192	197	201	202	204
84	1	F	94	107	123	132	140	151	157	164	163	173	178	180	182	183	180	184	188	192	198	203	206
85	1	F	61	81	98	113	122	132	136	146	150	154	158	160	164	165	167	168	170	177	178	176	180
86	1	F	84	98	112	127	137	146	154	164	168	172	179	181	181	185	191	192	191	196	200	201	197
87	1	F	80	94	109	124	132	140	146	154	155	158	165	164	166	166	167	168	173	178	181	187	184
88	1	F	59	71	85	98	106	116	121	127	132	136	139	140	146	147	152	154	161	166	168	167	174
89	1	F	85	104	116	134	139	150	159	169	172	176	180	179	183	183	186	191	196	199	201	205	205
90	1	F	100	113	127	141	146	150	158	163	167	171	176	179	173	179	179	186	193	163	194	197	200
91	1	F	93	107	128	143	152	161	166	175	177	184	188	186	192	200	196	205	190	203	207	213	219
92	1	F	73	95	115	133	144	153	157	164	169	175	181	180	183	189	194	200	189	201	203	205	211
93	1	F	99	112	125	140	147	153	160	164	167	171	172	176	174	185	180	185	173	189	194	194	195
94	1	F	106	120	135	145	156	162	166	172	172	179	180	177	185	188	188	194	200	202	203	208	210
95	1	F	88	106	123	142	148	155	162	168	171	174	181	182	192	190	187	192	193	196	199	195	205
96	1	F	83	96	108	122	130	137	146	156	158	165	166	169	172	173	176	184	183	189	190	192	198
97	1	F	82	104	122	140	148	155	164	167	171	178	182	188	193	196	199	189	203	202	200	210	214
98	1	F	78	95	111	129	140	148	157	159	163	169	170	176	179	187	192	179	191	195	193	200	204
99	1	F	83	97	110	122	128	136	141	148	150	156	160	162	170	169	172	163	182	186	191	191	197
100	1	F	95	105	118	131	136	145	149	157	161	162	168	173	171	174	176	178	177	184	188	189	192
101	1	F	96	108	125	134	144	154	160	167	169	169	178	175	181	183	185	181	190	193	195	194	203
102	1	F	79	95	116	130	142	148	155	160	165	161	170	189	175	178	179	180	188	190	191	192	196
103	1	F	86	104	120	136	144	151	159	163	168	172	174	178	182	186	189	186	193	193	198	198	202
104	1	F	86	103	116	129	138	152	160	167	172	176	179	181	184	191	190	191	197	199	205	201	199
105	1	F	75	92	110	127	137	150	159	164	169	172	177	178	185	189	192	195	201	205	207	204	209
106	1	F	88	108	128	147	158	164	176	182	185	190	191	195	197	197	200	193	203	204	212	217	219
107	1	F	87	97	109	119	130	135	139	144	146	150	153	154	156	161	156	164	169	168	170	172	177
108	1	F	88	104	117	131	140	145	149	153	159	159	162	165	168	174	172	166	173	179	182	181	190
109	1	F	86	106	126	144	153	168	173	182	183	192	197	198	202	206	204	211	212	222	225	225	228
110	1	F	97	115	126	141	151	159	164	170	171	156	178	182	182	185	185	189	191	195	199	200	205
111	1	F	100	118	129	142	151	154	162	166	169	175	177	183	185	189	183	187	198	195	200	199	204
112	1	F	89	110	129	137	147	152	158	164	170	172	176	181	183	187	194	192	198	204	204	204	209
113	1	F	113	97	109	122	135	142	146	154	156	162	168	171	169	173	172	179	186	187	184	193	196
114	1	F	96	117	129	144	156	162	169	176	183	187	191	196	197	202	203	211	213	216	222	226	227
115	1	F	87	106	122	137	148	159	164	173	181	181	185	190	192	198	196	199	206	211	211	212	216
116	1	F	67	84	98	112	122	132	140	147	152	155	154	160	162	167	168	173	173	174	181	182	186
117	1	F	75	93	109	127	141	150	157	159	165	168	169	176	178	181	183	187	189	191	189	194	199
118	1	F	100	117	131	144	155	158	166	168	172	178	183	181	189	192	194	193	196	203	202	204	199
119	1	F	78	98	115	128	143	150	154	160	164	172	174	176	177	182	182	179	189	194	201	196	189
120	1	F	101	114	128	138	147	157	162	162	168	174	178	179	183	186	186	187	193	197	196	197	197

--- = NO AVAILABLE DATA



















Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L	T R A C T	S E X	TEST WEEK																				
			-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25
481	4	M	102	133	168	172	216	241	258	269	282	296	306	307	313	322	333	337	354	362	372	379	379
482	4	M	97	131	167	171	226	260	282	298	313	332	337	348	361	368	373	388	400	409	422	430	435
483	4	M	123	146	176	170	214	242	262	275	287	302	311	320	326	343	347	351	367	372	393	397	403
484	4	M	76	108	140	173	194	214	227	240	249	257	266	276	287	295	294	304	314	323	330	339	382
485	4	M	135	168	199	227	245	265	279	287	297	305	320	325	336	341	346	355	373	380	390	392	405
486	4	M	101	126	147	165	176	189	198	208	217	224	232	240	248	253	255	261	274	282	286	298	301
487	4	M	104	135	170	208	231	256	276	290	304	316	332	338	344	350	356	366	383	391	399	405	409
488	4	M	99	128	154	181	200	216	231	244	257	268	273	284	291	300	304	310	325	333	336	337	347
489	4	M	83	108	138	168	189	210	229	244	248	262	276	281	293	303	307	321	330	339	353	357	365
490	4	M	138	170	202	225	244	261	273	285	298	306	317	320	332	342	347	354	371	371	382	388	393
491	4	M	120	146	178	196	209	225	235	244	248	261	285	276	283	290	294	304	317	325	337	336	346
492	4	M	88	118	150	176	200	226	243	257	263	274	290	292	300	306	314	322	334	345	352	363	369
493	4	M	107	156	150	171	192	212	224	234	242	254	265	271	281	288	291	302	311	318	328	335	338
494	4	M	126	127	193	220	242	266	283	296	306	315	315	331	342	349	352	362	374	380	395	405	411
495	4	M	78	109	144	178	207	230	248	261	269	283	294	305	310	320	326	333	351	350	360	353	365
496	4	M	102	132	166	201	224	250	265	277	288	298	306	319	325	332	343	354	366	376	389	397	409
497	4	M	115	138	168	195	214	227	249	251	262	266	274	282	287	298	300	320	325	335	342	345	356
498	4	M	95	120	153	184	210	232	250	260	268	277	287	297	311	321	323	336	352	355	370	378	390
499	4	M	124	153	196	231	251	272	292	308	317	333	348	349	363	369	372	386	402	407	408	417	422
500	4	M	107	137	177	203	223	242	252	270	276	285	296	306	311	317	322	328	340	344	352	361	363
501	4	M	114	138	170	198	217	239	251	267	272	281	292	298	310	320	324	332	349	354	359	370	371
502	4	M	99	124	164	194	216	238	253	267	277	289	295	299	310	315	320	329	341	355	366	380	377
503	4	M	106	126	149	169	192	224	242	258	274	286	293	299	308	324	329	337	355	359	365	383	389
504	4	M	110	131	165	187	217	238	253	269	277	291	304	304	310	322	332	340	355	368	373	389	393
505	4	M	113	136	168	196	218	235	252	260	271	283	288	296	308	319	320	328	347	350	355	368	372
506	4	M	113	138	174	197	215	231	242	258	271	280	286	293	301	305	312	322	334	336	350	353	357
507	4	M	103	127	163	193	211	227	243	252	263	274	280	287	300	307	317	323	333	339	346	354	359
508	4	M	101	118	133	136	149	165	174	195	206	195	214	227	230	235	246	259	269	277	285	291	293
509	4	M	129	155	187	216	237	255	272	284	294	310	313	317	327	333	342	352	366	372	386	399	405
510	4	M	107	134	165	194	210	227	239	252	263	269	280	284	295	301	306	314	332	337	338	355	364
511	4	M	93	120	152	178	204	225	240	258	270	277	292	297	299	309	320	331	349	348	358	369	370
512	4	M	99	128	162	190	214	240	260	274	292	305	314	322	334	345	352	363	372	380	386	393	397
513	4	M	107	129	163	183	208	234	245	257	273	281	289	303	310	318	329	340	352	359	371	380	384
514	4	M	125	151	183	205	221	222	250	264	277	283	297	300	310	320	324	340	350	355	360	367	378
515	4	M	116	139	169	188	208	223	233	244	261	275	284	297	298	307	316	329	347	354	358	370	372
516	4	M	115	137	163	186	205	230	240	249	259	271	281	289	296	309	312	327	340	345	344	352	352
517	4	M	85	114	150	176	204	233	250	264	279	294	303	308	316	323	330	342	356	358	374	377	384
518	4	M	90	123	154	186	214	238	256	270	278	290	299	310	316	323	337	337	354	363	374	373	386
519	4	M	118	141	178	201	223	246	259	271	279	297	306	314	324	331	341	343	364	374	387	387	394
520	4	M	104	132	167	197	224	248	270	285	298	310	319	330	339	347	355	366	378	381	399	400	405

--- = NO AVAILABLE DATA







TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N N I M A L	T R A G R O N O U P	S E X	TEST WEEK																								
			-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25				
641	5	M	124	155	188	220	237	252	264	270	285	292	297	306	307	314	323	328	339	342	351	353	356				
642	5	M	92	124	160	194	224	243	260	276	281	292	301	308	320	332	331	329	351	355	362	368	367				
643	5	M	97	122	148	178	205	225	241	250	266	256	283	292	300	308	313	326	337	345	346	359	349				
644	5	M	99	126	153	180	199	219	229	244	252	248	269	275	287	289	291	294	308	313	324	325	335				
645	5	M	124	147	169	193	207	223	234	245	256	247	271	277	290	294	301	301	317	327	332	340	343				
646	5	M	116	140	169	196	213	231	244	253	263	277	282	286	290	295	302	308	318	326	327	334	340				
647	5	M	86	117	149	182	204	216	231	240	252	258	263	274	279	286	290	295	303	306	312	315	324				
648	5	M	122	146	177	211	233	253	269	279	289	302	304	320	320	330	337	344	355	356	364	374	379				
649	5	M	116	146	176	202	224	242	256	268	280	287	292	297	307	313	322	324	339	344	350	360	366				
650	5	M	114	137	162	180	192	202	210	220	229	237	245	252	256	270	271	274	292	299	300	311	316				
651	5	M	97	124	154	188	213	232	245	258	269	278	286	296	308	307	312	326	335	338	351	356	359				
652	5	M	108	129	159	181	201	221	236	247	252	264	268	278	288	290	296	303	305	314	318	325	330				
653	5	M	86	113	141	174	198	215	231	244	258	265	272	277	291	293	299	310	321	325	333	338	350				
654	5	M	104	127	153	184	205	228	240	259	260	269	284	287	298	302	307	314	328	327	334	339	341				
655	5	M	98	146	179	207	224	242	255	268	278	287	294	278	303	308	317	326	335	341	340	354	358				
656	5	M	116	120	144	158	175	186	195	201	208	216	219	229	232	238	241	244	252	256	260	264	270				
657	5	M	98	130	169	204	229	251	267	281	286	296	306	313	328	332	345	348	358	364	369	371	379				
658	5	M	105	134	167	198	219	237	252	263	271	274	282	294	297	306	313	320	325	335	338	346	354				
659	5	M	107	131	164	190	211	230	244	256	265	270	280	286	289	301	303	313	324	327	335	338	341				
660	5	M	82	104	135	165	189	209	226	238	250	256	263	266	280	288	291	297	309	317	319	326	333				
661	5	M	100	127	160	186	204	239	233	241	254	260	270	277	284	289	294	298	322	321	331	332	340				
662	5	M	96	128	160	195	220	220	253	260	276	283	287	297	306	313	321	323	335	342	348	354	366				
663	5	M	111	136	160	184	201	223	230	234	243	254	259	267	276	281	288	297	307	315	323	325	330				
664	5	M	110	134	167	186	200	216	230	242	251	262	265	274	276	285	290	295	308	315	326	325	334				
665	5	M	100	127	155	176	196	214	230	242	250	251	258	266	272	283	287	291	302	308	315	320	327				
666	5	M	112	139	174	197	214	237	246	257	267	269	275	282	292	292	300	303	316	325	328	333	339				
667	5	M	124	140	175	198	219	239	250	264	269	284	285	289	304	311	313	319	341	343	354	358	369				
668	5	M	127	147	186	210	224	245	255	267	280	287	293	298	305	306	310	307	325	327	335	343	344				
669	5	M	94	109	144	171	188	210	222	233	245	254	264	271	277	281	289	293	302	306	314	328	329				
670	5	M	115	140	170	196	217	240	257	270	283	294	300	309	313	321	327	335	350	354	352	356	367				
671	5	M	102	124	148	167	188	211	230	232	245	255	263	266	279	285	286	294	301	307	314	326	335				
672	5	M	106	127	147	163	181	205	218	227	242	247	256	263	273	280	284	291	299	304	312	321	322				
673	5	M	88	117	148	178	202	268	241	250	263	269	284	288	298	298	309	317	325	329	336	342	350				
674	5	M	115	143	180	212	234	255	272	280	291	302	311	317	325	323	328	344	356	362	365	369	377				
675	5	M	117	151	187	219	242	227	284	298	306	319	329	337	350	352	361	369	387	382	399	402	412				
676	5	F	97	115	126	140	142	151	155	161	162	169	169	174	176	177	182	178	185	185	189	189	194				
677	5	F	94	111	120	132	138	145	150	151	158	160	159	166	165	166	168	171	175	176	176	182	183				
678	5	F	89	108	119	133	133	143	146	153	153	156	158	161	164	165	166	166	168	170	173	171	178				
679	5	F	96	113	130	142	144	153	156	165	164	171	172	176	176	182	181	184	186	183	189	192	195				
680	5	F	103	118	132	141	150	154	162	170	169	174	175	177	180	183	182	185	188	191	193	190	192				

----- = NO AVAILABLE DATA



Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L	T R A C T	S E X	TEST WEEK																				
			-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25
721	5	F	94	109	126	139	146	152	154	161	164	167	171	175	177	184	184	184	181	191	197	199	201
722	5	F	95	106	116	130	135	147	154	156	163	168	169	172	173	180	181	183	188	192	192	201	199
723	5	F	80	97	116	128	136	141	145	152	156	160	159	163	165	172	174	176	181	182	186	189	189
724	5	F	95	110	124	136	142	154	160	160	165	167	169	170	174	177	176	177	178	166	183	188	170
725	5	F	76	94	111	119	129	140	145	152	153	154	161	165	163	169	170	170	172	159	176	183	166
726	5	F	81	100	118	129	135	142	150	148	154	159	157	159	158	165	163	165	172	155	174	177	165
727	5	F	94	107	121	130	133	144	146	152	154	157	160	163	166	170	173	172	175	167	179	180	186
728	5	F	110	122	132	140	144	154	158	162	165	170	173	181	177	181	182	183	186	190	187	194	196
729	5	F	74	92	112	126	132	141	144	150	153	161	162	163	164	168	170	175	175	180	181	186	188
730	5	F	87	102	119	125	131	141	143	146	148	150	153	156	155	160	163	162	164	165	170	171	178
731	5	F	80	93	107	116	123	131	140	146	154	154	156	160	162	165	171	169	171	172	176	179	184
732	5	F	105	117	130	134	137	147	152	155	160	163	164	165	168	167	173	174	177	177	178	181	186
733	5	F	109	124	140	150	154	162	168	171	176	178	180	186	186	188	191	192	198	200	201	210	213
734	5	F	70	92	111	126	135	148	155	161	164	165	170	174	180	183	183	188	192	192	196	195	199
735	5	F	98	110	126	135	143	154	158	162	170	170	172	175	179	182	179	184	184	182	189	190	191
736	5	F	95	114	129	138	142	152	156	163	167	169	168	174	177	179	182	184	185	187	190	194	196
737	5	F	107	123	137	143	156	158	162	168	169	176	172	177	176	181	186	188	193	192	196	196	196
738	5	F	94	110	123	134	141	149	153	159	159	167	165	171	171	174	174	178	180	180	182	185	189
739	5	F	90	110	114	138	148	150	155	156	162	167	169	170	172	176	178	181	184	187	190	189	195
740	5	F	80	87	128	128	133	148	150	156	158	159	163	162	166	171	171	168	175	180	176	178	183
741	5	F	103	114	128	135	143	155	160	162	170	172	172	177	176	186	180	187	189	187	195	196	201
742	5	F	90	104	120	128	137	146	150	154	156	161	160	169	167	177	175	177	181	181	188	192	190
743	5	F	107	120	130	138	149	152	156	160	164	165	166	168	166	173	170	176	180	173	179	181	183
744	5	F	80	99	113	129	149	151	156	161	163	169	165	171	170	179	180	182	181	179	185	185	188
745	5	F	93	107	122	130	142	150	150	158	160	166	167	168	170	170	173	175	183	182	182	187	194
746	5	F	67	90	111	120	131	140	142	150	153	160	160	159	164	169	168	173	175	177	183	186	188
747	5	F	84	103	119	128	133	144	149	156	160	163	168	169	171	173	173	178	181	180	184	182	192
748	5	F	82	103	119	130	140	149	155	160	162	166	165	167	170	170	172	181	179	180	180	186	188
749	5	F	107	119	129	139	153	159	161	169	171	171	171	174	176	182	182	186	190	190	190	195	200
750	5	F	99	111	123	126	135	139	143	148	152	158	163	164	162	167	164	168	169	167	172	176	176

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N T M A L G R N O S O F O P X		TEST WEEK																		65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63
1	M	407	410	414	426	430	426	433	439	452	454	443	457	437	---	---	---	---	---	---
2	M	418	432	436	445	443	457	452	445	458	468	417	441	454	451	453	451	475	453	466
3	M	378	386	391	391	393	406	406	414	426	427	381	417	419	427	437	438	444	445	444
4	M	403	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5	M	380	373	388	403	402	392	410	414	422	428	419	421	430	428	428	436	433	439	441
6	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7	M	407	419	431	437	437	449	451	457	461	465	468	474	484	478	482	488	493	496	492
8	M	430	451	458	463	466	484	476	484	493	498	454	487	501	495	502	510	510	514	510
9	M	424	444	441	451	453	464	472	471	483	488	439	467	482	478	485	497	495	507	501
10	M	392	401	411	419	420	428	430	435	437	441	402	428	441	439	433	435	431	442	442
11	M	386	397	403	410	413	419	418	420	429	434	397	423	438	441	---	---	---	---	---
12	M	368	381	382	386	392	400	403	404	408	412	394	410	415	---	---	---	---	---	---
13	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	M	413	422	428	432	436	445	448	454	460	465	448	461	474	461	473	470	481	484	485
15	M	393	407	416	426	425	435	444	445	447	451	435	452	454	463	464	466	474	480	483
16	M	386	394	398	404	411	412	420	424	435	434	427	419	429	436	434	433	440	451	452
17	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	M	407	414	426	435	434	443	449	450	459	466	463	471	467	---	---	---	---	---	---
19	M	356	356	351	336	337	328	---	---	---	---	---	---	---	---	---	---	---	---	---
20	M	427	431	440	447	450	464	465	468	481	476	485	495	509	498	---	---	---	---	---
21	M	387	391	395	400	399	403	404	406	415	418	393	414	423	421	393	412	418	416	415
22	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	M	356	362	368	383	376	391	391	396	398	400	395	407	418	410	416	426	427	435	426
24	M	385	397	410	417	419	427	435	436	440	446	430	442	444	446	450	452	451	463	463
25	M	367	369	370	376	377	384	387	390	390	399	397	396	405	407	409	411	419	418	421
26	M	407	418	421	429	422	433	430	440	444	446	453	452	464	467	474	471	473	485	492
27	M	388	411	416	428	424	441	438	447	453	456	463	463	468	---	---	---	---	---	---
28	M	416	425	429	432	433	435	438	449	453	453	423	443	444	443	433	440	452	455	457
29	M	417	422	424	431	434	438	446	450	459	464	449	457	455	456	461	465	460	462	463
30	M	396	409	414	427	417	428	431	435	444	447	426	444	448	444	450	458	461	463	461
31	M	356	361	366	370	371	386	389	396	398	398	386	396	399	398	402	404	416	415	419
32	M	418	432	450	457	463	468	479	483	485	498	468	496	497	496	494	512	506	514	525
33	M	393	399	410	419	422	422	428	435	441	444	443	454	444	454	457	460	454	469	462
34	M	414	422	428	437	440	441	434	445	457	460	440	448	460	458	461	466	472	477	478
35	M	402	407	408	418	420	421	424	426	431	442	440	442	453	442	452	457	459	466	468
36	M	398	404	410	426	421	428	434	431	434	435	438	442	455	447	454	464	458	466	470
37	M	440	455	456	472	468	449	465	478	494	496	464	484	495	498	506	514	508	509	514
38	M	424	430	434	441	441	428	431	448	460	465	425	453	465	468	475	481	481	486	484
39	M	395	401	410	420	419	410	411	424	437	447	437	441	444	---	---	---	---	---	---
40	M	377	382	393	400	406	416	412	415	420	403	421	425	426	430	440	440	437	455	456

--- = NO AVAILABLE DATA

Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
41	M	344	354	358	364	364	369	374	376	378	349	366	378	384	374	388	379	376	376
42	M	397	406	422	421	426	432	438	434	445	431	442	451	455	465	466	478	476	481
43	M	372	372	372	393	406	416	416	416	424	417	425	430	429	420	435	450	444	459
44	M	381	368	375	396	403	404	414	402	414	408	403	417	420	414	424	432	436	436
45	M	430	422	422	458	467	457	464	455	469	467	474	480	487	---	---	---	---	---
46	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
47	M	356	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
48	M	401	406	412	425	438	434	437	437	453	447	459	468	473	468	476	483	483	495
49	M	410	412	426	435	441	443	448	448	455	460	451	466	470	472	474	484	486	492
50	M	376	391	399	408	422	414	421	425	436	435	428	439	432	438	---	---	---	---
51	M	415	421	428	439	451	454	461	460	465	462	454	468	472	476	471	476	483	486
52	M	369	378	382	386	395	402	398	406	407	404	410	417	418	418	426	430	429	438
53	M	390	408	415	418	432	432	436	441	444	435	433	443	448	444	459	467	474	482
54	M	420	433	434	441	449	452	458	460	467	425	441	453	468	460	463	473	471	477
55	M	390	401	408	412	423	424	424	418	439	407	426	435	444	433	435	443	446	454
56	M	389	403	408	413	426	422	422	423	434	407	410	427	434	432	440	444	446	451
57	M	381	392	398	408	415	414	418	415	429	413	425	434	448	438	443	454	460	464
58	M	387	398	402	409	412	418	424	431	433	432	424	440	448	447	453	462	470	456
59	M	411	424	435	438	442	451	447	451	460	450	456	469	470	466	467	468	476	476
60	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
61	M	382	389	393	401	414	407	413	418	421	383	392	408	418	415	415	419	433	431
62	M	366	367	373	380	377	386	392	392	395	356	395	401	400	406	409	409	414	419
63	M	391	403	411	417	425	432	437	440	458	441	437	446	450	452	461	474	475	487
64	M	375	383	390	396	395	399	414	413	418	395	408	417	410	423	418	424	423	432
65	M	437	439	447	458	457	464	468	462	466	445	460	472	472	479	477	484	488	496
66	M	342	351	361	364	367	367	380	384	392	361	371	381	378	392	389	392	402	404
67	M	415	425	431	438	442	446	449	444	454	442	456	458	461	463	---	---	---	---
68	M	321	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
69	M	432	440	444	452	460	456	459	460	475	438	444	465	463	472	467	468	473	481
70	M	409	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
71	M	418	432	444	450	458	466	470	468	478	458	457	470	480	477	483	477	485	495
72	M	386	401	394	404	411	404	417	427	437	378	406	421	432	424	433	435	426	434
73	M	364	372	383	390	391	392	397	398	403	395	405	408	408	402	408	412	407	417
74	M	410	417	424	438	439	445	450	454	468	447	460	455	462	464	466	470	474	469
75	M	416	419	424	430	439	443	443	446	446	447	454	450	449	464	457	460	467	471
76	F	206	209	213	208	215	222	221	223	229	235	220	237	233	236	242	259	259	264
77	F	201	206	212	211	207	217	221	225	228	228	234	239	239	237	248	256	264	275
78	F	215	215	221	224	223	226	224	237	242	243	251	251	257	260	---	---	---	---
79	F	223	219	229	231	230	241	244	242	244	250	248	255	254	268	280	285	291	305
80	F	200	206	209	215	212	223	226	237	232	244	246	252	255	263	270	277	281	288

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L R O U T S	S E X	TEST WEEK																			
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
R1	F	216	217	221	222	219	226	226	229	233	230	232	241	238	241	242	251	253	256	266	272
R2	F	195	199	206	208	211	221	223	223	222	231	222	235	232	236	236	246	257	267	272	279
R3	F	198	214	216	220	218	225	229	230	233	236	219	236	235	232	236	250	245	257	273	284
R4	F	209	210	214	217	214	225	227	234	238	240	238	242	245	244	244	256	262	278	287	288
R5	F	187	185	192	194	195	199	200	199	203	207	206	212	208	205	206	212	213	218	224	227
R6	F	200	206	207	209	213	219	226	228	228	228	232	235	242	---	---	---	---	---	---	---
R7	F	187	193	199	201	201	208	210	211	215	213	215	217	223	227	---	---	---	---	---	---
R8	F	173	168	169	171	169	177	180	182	177	178	180	182	184	186	192	193	198	201	211	213
R9	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R10	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R11	F	219	222	224	230	233	239	237	237	245	244	240	246	246	---	---	---	---	---	---	---
R12	F	218	213	216	215	219	227	229	231	234	236	235	236	240	242	242	250	255	255	256	263
R13	F	197	205	206	202	202	208	214	214	214	216	212	214	220	216	219	223	231	233	239	238
R14	F	215	219	217	217	217	232	225	227	233	240	239	245	244	247	254	262	264	282	293	296
R15	F	215	224	223	222	217	219	229	226	234	234	229	234	238	234	---	---	---	---	---	---
R16	F	194	199	206	210	211	223	224	227	231	231	233	236	251	247	252	261	270	273	279	280
R17	F	218	221	220	229	229	230	236	235	244	249	244	250	250	250	255	258	270	274	277	282
R18	F	208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R19	F	197	206	207	209	208	215	219	218	222	217	213	234	221	227	228	239	241	247	254	261
R20	F	193	201	204	205	204	212	216	216	215	216	217	223	228	233	238	245	250	256	262	269
R21	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R22	F	200	205	206	208	206	214	221	216	212	230	228	235	244	256	264	273	275	279	284	286
R23	F	203	207	209	214	210	222	217	217	223	226	208	227	226	221	226	231	230	238	240	245
R24	F	206	207	203	203	210	218	216	219	221	220	210	234	232	226	232	233	234	247	258	257
R25	F	209	217	222	223	224	232	233	236	241	243	244	246	237	---	---	---	---	---	---	---
R26	F	218	218	224	233	233	238	239	245	248	251	238	258	257	262	270	274	279	292	293	300
R27	F	175	178	181	184	191	191	191	196	201	202	198	203	208	212	217	218	223	226	228	236
R28	F	189	189	194	193	195	208	203	206	210	211	213	220	216	227	230	232	235	251	246	251
R29	F	233	238	242	240	243	250	253	248	257	253	248	254	258	260	262	272	275	290	302	300
R30	F	207	216	221	222	224	227	232	234	233	231	233	240	244	247	253	255	258	270	280	280
R31	F	204	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R32	F	212	218	216	219	220	224	224	225	232	230	232	235	232	234	236	241	242	259	259	260
R33	F	200	202	203	211	213	216	218	218	223	225	218	219	227	225	232	237	234	247	262	262
R34	F	229	233	235	239	241	245	246	248	250	246	243	246	251	253	252	269	274	285	292	304
R35	F	219	221	229	233	239	239	241	245	249	252	246	249	254	257	---	---	---	---	---	---
R36	F	181	188	191	196	196	198	197	201	204	201	199	215	218	213	212	214	221	222	227	233
R37	F	199	202	202	204	204	213	213	216	219	224	215	220	221	223	227	238	240	247	254	254
R38	F	212	213	221	218	218	233	229	226	229	234	220	240	238	244	243	253	254	274	277	283
R39	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
R40	F	208	209	207	213	216	221	225	223	227	234	234	236	238	245	248	257	260	273	283	292

--- = NO AVAILABLE DATA

Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																		61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59				
121	F	199	197	198	203	203	211	208	210	214	215	210	218	216	218	224	233	237	243	253	262	
122	F	193	203	211	214	214	213	221	223	224	224	221	228	228	232	230	235	238	246	249	253	
123	F	214	218	226	229	222	232	230	231	239	239	237	238	240	245	254	257	272	277	284	291	
124	F	227	227	232	241	241	242	244	247	252	251	249	258	258	---	---	---	---	---	---	---	
125	F	221	223	229	232	236	255	243	240	247	245	246	256	257	257	259	264	253	266	285	285	
126	F	228	234	238	246	241	241	246	247	253	260	257	268	266	264	264	270	264	271	279	285	
127	F	205	210	208	215	222	222	221	218	239	216	249	237	233	236	229	235	243	257	261	275	
128	F	208	216	220	222	226	230	227	233	225	232	242	246	241	240	246	256	257	272	280	275	
129	F	215	221	223	225	232	236	237	237	239	230	242	245	243	251	249	257	275	282	281	289	
130	F	220	219	217	223	229	233	229	228	231	224	230	237	235	---	---	---	---	---	---	---	
131	F	202	207	208	215	219	218	220	227	230	220	239	241	243	242	258	260	271	281	285	291	
132	F	192	200	204	200	204	208	206	207	213	210	214	219	224	227	232	239	239	244	258	261	
133	F	220	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
134	F	228	219	223	235	237	235	234	236	241	217	242	224	241	250	246	254	262	265	261	280	
135	F	217	219	230	231	239	229	230	232	237	227	232	213	232	245	254	253	262	268	289	298	
136	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
137	F	226	224	229	238	242	248	252	251	256	258	253	265	266	268	269	282	287	293	294	301	
138	F	210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
139	F	197	200	205	212	217	214	215	218	222	219	233	233	228	233	238	245	256	268	276	277	
140	F	205	205	207	212	211	218	218	223	223	219	226	225	234	232	228	237	240	238	238	248	
141	F	202	203	209	212	216	217	210	214	221	220	226	226	225	---	---	---	---	---	---	---	
142	F	206	214	223	225	230	227	249	245	243	239	246	251	258	255	265	280	287	291	299	302	
143	F	210	220	226	229	233	234	236	239	240	240	247	247	248	---	---	---	---	---	---	---	
144	F	206	220	229	234	239	235	239	238	247	242	252	247	256	249	254	265	269	278	276	293	
145	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
146	F	211	198	218	228	229	231	229	229	227	221	231	229	230	228	238	247	238	246	256	263	
147	F	210	195	209	215	224	222	221	224	227	231	230	230	234	240	241	250	248	259	264	268	
148	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
149	F	210	203	212	222	228	228	228	228	228	225	242	234	235	240	243	248	254	260	268	283	
150	F	201	201	205	209	208	217	218	218	222	225	233	237	232	242	255	265	267	266	276	283	
151	M	386	399	400	412	403	415	415	422	428	434	439	437	437	439	442	446	452	459	463	464	
152	M	360	369	365	379	379	388	395	395	405	403	401	396	406	---	---	---	---	---	---	---	
153	M	382	398	380	402	395	411	412	413	424	424	400	412	420	422	428	433	437	437	436	430	
154	M	409	410	417	428	422	433	439	432	437	444	430	443	450	444	448	452	459	464	462	469	
155	M	419	426	431	437	433	443	447	450	451	462	449	446	462	460	470	468	472	480	478	482	
156	M	411	415	426	426	427	442	441	445	450	461	451	445	462	459	463	466	473	477	480	476	
157	M	378	390	392	390	392	407	404	414	416	415	420	413	420	415	422	423	430	437	438	434	
158	M	388	405	414	408	415	429	429	435	437	436	431	440	439	440	446	444	451	458	460	459	
159	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
160	M	383	407	415	417	412	424	421	424	438	444	427	434	439	436	448	448	459	460	458	456	

--- = NO AVAILABLE DATA

Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59		
161	2	M	405	430	432	434	432	444	448	458	452	436	448	461	451	465	469	478	476	475
162	2	M	378	386	390	397	399	410	403	413	419	390	411	425	416	424	431	440	447	446
163	2	M	424	432	441	450	454	455	460	456	468	448	465	476	478	481	480	491	500	506
164	2	M	415	418	424	429	434	441	434	436	445	432	441	453	446	445	455	456	460	465
165	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
166	2	M	408	411	424	428	434	417	439	446	458	451	463	460	452	459	459	466	472	468
167	2	M	418	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
168	2	M	391	391	412	415	410	422	421	433	429	405	436	433	430	433	437	444	441	451
169	2	M	411	423	431	442	437	443	449	459	464	466	427	430	455	461	475	474	482	485
170	2	M	378	390	396	400	404	407	413	416	420	402	399	405	402	411	417	426	427	430
171	2	M	353	368	379	382	388	394	398	407	406	408	396	415	412	418	423	426	434	436
172	2	M	401	400	412	411	408	416	430	426	434	437	436	449	---	---	---	---	---	---
173	2	M	400	406	414	424	414	415	427	434	444	422	440	441	441	446	452	447	456	454
174	2	M	437	438	450	453	454	460	471	470	477	489	480	493	490	485	492	502	506	509
175	2	M	401	413	416	422	418	431	434	434	440	433	439	449	454	451	457	461	465	444
176	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
177	2	M	373	378	394	396	396	406	418	419	403	420	428	434	438	435	441	447	431	430
178	2	M	363	370	380	388	392	398	409	408	406	412	368	400	416	415	425	433	432	440
179	2	M	398	413	422	420	424	431	431	437	439	450	460	455	464	460	461	460	477	477
180	2	M	386	392	402	398	402	408	398	409	416	413	415	419	417	---	---	---	---	---
181	2	M	394	396	399	410	408	411	417	421	434	432	436	436	423	428	435	445	449	442
182	2	M	394	397	402	415	412	418	428	425	435	432	417	423	424	432	440	442	458	446
183	2	M	363	371	379	387	386	395	398	402	408	408	414	415	409	420	420	426	434	430
184	2	M	441	452	457	471	472	470	486	482	483	493	467	---	---	---	---	---	---	---
185	2	M	394	408	411	429	427	438	434	444	445	448	444	459	450	463	478	477	484	489
186	2	M	422	430	435	439	436	440	450	445	445	455	420	438	454	454	458	457	465	463
187	2	M	400	408	405	412	414	432	433	440	448	443	447	451	---	---	---	---	---	---
188	2	M	396	406	412	421	424	427	432	433	443	447	440	458	454	462	464	470	475	472
189	2	M	392	407	412	414	418	424	432	429	436	444	445	448	447	461	466	472	474	471
190	2	M	361	377	380	392	394	405	409	422	407	416	421	428	428	423	423	427	430	431
191	2	M	408	409	426	432	438	436	443	449	445	431	451	460	---	---	---	---	---	---
192	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
193	2	M	424	425	434	440	445	446	445	430	444	420	434	429	428	443	448	446	448	432
194	2	M	449	461	466	470	477	486	484	492	490	486	489	507	---	---	---	---	---	---
195	2	M	392	402	401	410	407	412	409	418	419	411	415	418	423	419	416	415	420	440
196	2	M	367	375	386	386	400	398	398	406	401	396	402	401	415	417	415	416	429	425
197	2	M	350	356	366	378	376	384	391	393	395	367	366	389	402	397	403	399	408	411
198	2	M	398	400	413	416	421	425	433	435	444	437	448	440	452	452	457	462	462	460
199	2	M	420	417	438	444	452	449	444	456	467	464	471	482	475	479	481	493	494	499
200	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T M R A L G R S O U P	X	TEST WEEK																63	65	
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59		
201	2	M	400	409	419	428	433	439	445	452	443	435	449	457	454	456	458	460	477	477
202	2	M	381	389	397	406	412	419	421	434	412	417	429	441	438	438	437	434	480	477
203	2	M	402	405	412	412	423	428	429	435	429	437	433	438	447	---	---	---	---	436
204	2	M	400	406	419	417	422	427	425	439	424	420	435	433	---	---	---	---	---	---
205	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
206	2	M	428	443	452	459	470	473	471	476	469	477	493	491	464	488	494	499	504	503
207	2	M	420	432	442	441	455	456	456	459	432	430	446	451	454	449	455	458	468	468
208	2	M	436	449	460	462	462	475	468	484	437	468	481	486	480	480	485	493	501	501
209	2	M	376	379	383	391	398	398	401	413	405	407	416	415	---	---	---	---	---	---
210	2	M	408	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
211	2	M	400	404	413	417	420	424	430	441	419	410	432	439	444	448	458	461	470	471
212	2	M	398	400	399	402	398	404	404	415	384	407	413	426	420	440	443	451	455	460
213	2	M	339	336	344	352	353	359	362	369	345	360	374	375	377	379	387	392	398	401
214	2	M	429	434	445	450	463	461	458	464	463	447	463	464	466	---	---	---	---	---
215	2	M	389	401	408	412	414	422	424	426	427	428	439	438	435	438	444	457	458	461
216	2	M	379	393	404	414	421	421	424	425	428	434	440	448	441	448	460	457	462	463
217	2	M	444	463	469	476	492	491	495	500	475	465	482	495	498	496	506	513	519	516
218	2	M	388	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
219	2	M	384	395	403	407	422	423	425	430	412	411	427	430	430	438	444	446	452	458
220	2	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
221	2	M	398	408	423	424	433	437	444	441	428	442	453	448	455	464	462	463	473	473
222	2	M	400	413	417	428	437	446	450	450	456	455	468	474	470	477	470	472	479	473
223	2	M	405	413	424	423	422	427	423	427	424	426	437	446	444	442	445	450	456	473
224	2	M	409	413	418	424	426	424	432	433	441	437	440	444	445	447	456	459	464	462
225	2	M	374	381	389	396	395	400	402	403	410	402	417	426	429	424	426	431	432	424
226	2	F	216	219	221	220	223	233	235	238	256	250	258	266	273	276	285	294	288	283
227	2	F	207	211	213	213	213	223	224	228	234	221	240	236	233	238	248	258	254	263
228	2	F	207	209	212	213	215	218	221	224	227	227	228	250	232	238	245	249	256	262
229	2	F	218	222	225	221	223	228	234	236	244	244	246	250	250	262	284	289	294	300
230	2	F	171	179	180	178	184	187	186	188	202	198	204	204	208	221	232	237	248	251
231	2	F	204	211	213	219	214	218	225	231	232	235	243	262	265	277	284	294	299	307
232	2	F	189	178	198	197	193	203	206	203	209	207	213	212	212	214	224	225	231	238
233	2	F	233	232	238	241	237	247	249	258	269	263	278	274	281	295	299	308	309	313
234	2	F	208	196	215	224	220	220	222	228	233	227	250	238	243	242	257	266	275	282
235	2	F	190	202	205	203	204	213	214	214	215	215	220	227	237	234	240	247	252	264
236	2	F	224	242	249	254	258	259	258	262	266	276	273	274	280	284	292	293	293	296
237	2	F	183	197	201	202	202	205	210	209	216	225	224	225	233	240	259	254	264	271
238	2	F	206	212	219	223	224	231	232	232	246	229	246	253	252	264	268	279	281	279
239	2	F	205	225	228	229	226	233	237	239	245	247	262	273	---	---	---	---	---	---
240	2	F	206	214	222	225	230	224	227	230	239	244	244	238	248	250	247	256	272	279

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N T I M A L G R O U P	S E X	TEST WEEK																61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59		
241	2	193	196	203	208	208	214	215	216	217	225	204	234	232	232	239	248	245	266	282
242	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
243	2	236	227	238	242	243	250	252	259	274	279	286	298	300	306	310	321	311	325	334
244	2	203	205	208	211	212	216	215	217	226	229	225	226	224	---	---	---	---	---	---
245	2	196	201	203	204	208	214	217	219	220	225	221	244	238	234	222	232	239	244	252
246	2	213	218	223	230	229	229	235	240	242	245	239	243	246	250	---	---	---	---	---
247	2	236	229	234	233	232	232	238	243	244	244	242	250	255	255	256	257	257	268	271
248	2	215	221	226	229	230	225	231	236	243	244	238	242	246	240	250	247	251	266	270
249	2	199	199	201	203	199	216	212	212	212	212	209	214	215	220	218	220	223	229	226
250	2	211	219	226	229	228	231	234	242	250	247	233	254	249	246	256	262	267	278	284
251	2	227	228	231	232	235	236	238	240	246	254	247	252	256	269	272	282	280	279	279
252	2	199	211	211	215	211	210	210	210	214	212	208	218	223	215	223	228	235	239	242
253	2	229	231	238	243	249	247	260	254	255	265	260	267	270	286	285	298	305	309	316
254	2	232	232	236	240	238	242	251	255	260	253	266	263	254	262	262	270	272	274	280
255	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
256	2	219	222	221	230	232	240	241	242	247	252	251	255	262	260	268	256	273	283	288
257	2	240	237	244	252	248	253	261	261	262	265	262	291	282	---	---	---	---	---	---
258	2	212	213	220	224	223	226	230	233	240	242	233	246	251	253	250	249	269	277	280
259	2	223	229	231	235	238	243	245	250	265	270	265	269	275	284	285	290	290	291	300
260	2	200	204	213	219	214	219	220	221	225	225	225	224	230	233	233	239	240	246	255
261	2	209	217	221	225	227	231	230	238	242	244	241	246	243	242	251	253	257	260	264
262	2	193	192	194	200	203	204	204	208	208	203	212	218	220	---	---	---	---	---	---
263	2	191	193	195	200	208	206	207	208	216	207	222	221	220	220	226	231	227	238	247
264	2	205	204	211	214	217	220	222	225	227	223	238	236	239	239	243	247	253	257	271
265	2	209	203	203	209	207	208	217	222	224	206	233	227	227	230	235	240	238	251	262
266	2	180	191	202	204	203	208	210	208	218	218	215	212	220	229	227	220	220	230	236
267	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
268	2	182	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
269	2	222	234	241	240	249	248	248	256	259	252	261	258	269	273	278	288	288	301	305
270	2	214	226	229	234	236	242	241	245	246	248	247	250	251	261	258	270	276	286	294
271	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
272	2	210	214	224	228	237	235	230	235	244	237	239	242	239	250	254	258	265	278	286
273	2	211	213	222	233	236	234	237	240	243	234	236	240	240	245	---	---	---	---	---
274	2	213	215	221	227	234	231	236	235	237	238	242	246	244	240	254	259	265	278	282
275	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
276	2	208	209	217	227	232	229	232	234	239	233	233	240	245	246	251	261	267	274	280
277	2	192	197	197	198	204	202	204	209	209	206	211	215	210	211	---	---	---	---	---
278	2	210	215	218	222	229	229	233	231	237	232	237	235	236	238	234	236	244	251	255
279	2	222	228	228	231	234	238	244	241	247	229	250	251	248	248	---	---	---	---	---
280	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L N O D O U P	S E X	TEST WEEK																57	59	61	63	55
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57					
281	2	211	212	221	229	239	233	231	232	232	233	245	252	257	255	260	267	275	292	297	298	
282	2	201	203	208	211	213	211	216	215	218	209	220	221	228	---	---	---	---	---	---	---	
283	2	206	196	208	211	211	217	215	216	219	218	235	227	232	231	234	243	243	262	262	266	
284	2	222	224	229	234	232	235	238	241	244	237	241	247	249	251	259	272	272	280	282	291	
285	2	194	190	198	198	204	206	208	209	216	192	214	215	213	214	220	228	225	234	235	240	
286	2	206	212	210	217	222	218	227	225	233	227	231	239	240	244	254	257	269	288	285	298	
287	2	218	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
288	2	202	207	206	215	220	218	219	222	222	222	220	233	235	238	243	244	251	259	263	271	
289	2	216	214	222	223	228	230	231	232	234	235	236	243	250	252	267	278	283	287	293	300	
290	2	199	200	203	210	208	217	218	217	217	217	221	222	226	231	236	238	244	244	247	265	
291	2	193	199	201	205	202	206	210	211	214	213	210	217	217	217	224	228	234	248	253	259	
292	2	206	212	219	219	226	226	226	228	235	225	234	235	242	241	254	260	265	269	276	278	
293	2	200	197	204	207	214	212	215	212	217	214	219	222	230	231	236	242	251	259	271	272	
294	2	181	179	181	183	189	192	194	193	198	196	205	209	212	224	241	241	238	247	248	252	
295	2	200	198	205	207	212	218	216	214	218	202	210	222	220	227	232	238	241	252	254	263	
296	2	219	222	229	230	231	233	238	239	240	234	240	239	236	245	248	251	256	266	275	274	
297	2	208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
298	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
299	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
300	2	188	169	171	192	198	198	196	200	203	197	202	202	211	---	---	---	---	---	---	---	
301	3	410	413	423	428	417	429	425	428	440	448	452	437	424	451	458	457	460	464	472	470	
302	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
303	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
304	3	373	380	393	398	394	414	412	415	427	431	428	432	440	439	422	444	430	438	446	450	
305	3	386	391	397	402	402	404	400	397	381	380	---	---	---	---	---	---	---	---	---	---	
306	3	373	377	389	395	391	409	410	408	420	420	400	421	427	427	432	443	430	452	446	455	
307	3	392	408	413	415	410	421	415	419	429	431	420	415	426	407	433	442	438	442	443	448	
308	3	410	421	427	436	437	444	443	441	453	458	453	453	465	459	472	467	474	484	476	477	
309	3	405	427	432	436	442	454	459	453	467	462	423	440	453	452	466	472	476	483	476	480	
310	3	386	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
311	3	363	365	374	376	375	382	389	388	396	403	399	396	414	410	412	418	427	423	430	437	
312	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
313	3	403	411	413	420	421	432	432	435	437	443	431	445	447	445	437	449	451	458	458	458	
314	3	368	380	389	392	394	403	407	405	417	417	406	413	418	419	421	426	432	425	427	416	
315	3	418	433	442	447	450	461	463	462	467	475	448	471	479	465	468	485	494	505	500	499	
316	3	375	384	390	389	396	401	401	407	418	414	375	403	401	---	---	---	---	---	---	---	
317	3	417	436	443	451	455	462	464	473	483	477	463	461	472	476	485	489	494	504	504	508	
318	3	391	399	409	409	414	424	426	421	435	437	416	440	442	439	448	454	460	468	469	466	
319	3	410	425	421	431	436	437	446	452	460	459	421	448	450	456	456	461	467	486	474	482	
320	3	375	384	394	402	402	406	419	416	422	430	408	427	430	---	---	---	---	---	---	---	

--- = NO AVAILABLE DATA



Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59		
361	3 M	397	407	404	418	419	422	422	430	431	413	429	436	432	436	438	441	436	451	441
362	3 M	412	432	436	440	450	446	449	451	463	407	454	457	457	452	463	464	466	459	471
363	3 M	384	395	413	413	418	425	431	433	437	422	432	445	439	438	446	451	454	465	455
364	3 M	369	378	380	389	400	401	409	402	407	402	408	414	418	415	413	415	420	430	428
365	3 M	387	400	412	420	425	427	438	440	442	433	439	448	449	447	456	449	457	462	453
366	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
367	3 M	357	361	367	364	373	376	380	376	384	370	380	389	391	386	391	398	393	393	386
368	3 M	400	409	417	420	426	424	427	426	435	385	408	427	433	435	438	447	447	454	452
369	3 M	386	397	404	405	411	414	412	414	423	371	398	415	418	420	424	431	431	436	433
370	3 M	388	385	398	405	407	411	421	414	430	412	422	433	436	434	436	442	438	448	444
371	3 M	362	372	377	387	391	392	397	402	406	388	394	400	406	406	418	417	420	424	426
372	3 M	386	402	410	418	427	425	438	434	443	441	446	444	455	452	453	458	467	474	472
373	3 M	382	387	397	402	395	411	423	416	419	408	422	430	426	396	421	434	418	409	389
374	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
375	3 M	396	399	403	410	397	412	419	416	421	409	410	429	432	430	432	440	443	443	441
376	3 F	196	196	198	203	207	202	207	207	204	210	211	214	200	205	226	225	218	239	248
377	3 F	214	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
378	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
379	3 F	191	211	217	220	223	224	225	231	228	239	218	236	243	234	238	243	255	253	273
380	3 F	189	208	209	216	213	220	219	227	227	231	225	230	236	232	239	243	245	247	243
381	3 F	185	197	202	205	203	210	215	217	218	220	211	220	220	217	220	217	224	230	232
382	3 F	208	206	206	208	212	219	216	215	221	224	224	228	231	236	238	247	260	270	282
383	3 F	226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
384	3 F	217	219	225	227	226	229	235	237	239	242	241	243	246	250	251	254	258	263	282
385	3 F	194	198	203	202	201	211	208	213	217	223	225	222	223	221	220	224	229	239	247
386	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
387	3 F	185	187	193	195	195	201	205	213	219	225	226	229	236	240	240	248	248	248	264
388	3 F	199	204	206	211	206	217	219	220	221	225	220	231	230	231	236	244	255	261	270
389	3 F	196	193	201	202	204	214	213	213	217	226	217	216	226	226	232	243	251	257	259
390	3 F	212	212	214	215	212	218	223	225	240	236	228	229	249	245	239	239	245	248	253
391	3 F	187	210	215	221	223	225	224	227	229	230	229	236	244	244	243	244	249	254	261
392	3 F	207	190	197	201	198	205	207	207	214	219	224	233	234	240	252	250	252	255	260
393	3 F	215	215	221	227	226	228	252	246	245	244	244	250	249	251	254	260	258	264	280
394	3 F	212	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
395	3 F	211	215	218	216	220	223	229	233	235	238	239	244	254	249	254	260	265	268	276
396	3 F	206	204	203	210	216	219	220	219	225	221	222	225	229	---	---	---	---	---	---
397	3 F	216	222	219	228	229	236	235	241	241	250	249	253	251	255	264	266	276	282	290
398	3 F	227	235	238	240	235	242	243	244	252	250	247	249	251	251	254	259	266	273	277
399	3 F	195	205	203	207	214	216	219	219	219	220	217	230	229	237	241	242	256	275	271
400	3 F	184	185	183	189	189	196	193	195	198	204	208	206	200	207	214	215	217	218	223

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T I M E L R G R S O U P X	TEST WFKK																65			
	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
401	3	F	206	212	211	219	222	222	225	222	204	230	212	224	229	231	232	236	242	251
402	3	F	237	234	234	243	246	254	253	252	249	276	261	271	275	286	279	288	294	308
403	3	F	224	226	226	230	231	233	234	240	222	240	238	244	245	246	250	251	252	263
404	3	F	227	230	230	238	240	244	246	247	233	252	258	259	267	274	279	282	282	289
405	3	F	224	234	227	236	242	242	242	240	237	263	255	253	265	266	280	280	280	282
406	3	F	213	216	217	225	225	236	248	249	258	266	266	---	---	---	---	---	---	---
407	3	F	230	236	235	237	241	242	247	251	249	255	259	---	264	266	277	284	296	296
408	3	F	226	231	233	236	241	243	244	247	243	246	244	---	---	---	---	---	---	---
409	3	F	228	239	237	249	247	251	254	250	247	252	258	257	262	262	272	279	288	298
410	3	F	206	215	217	221	225	221	229	223	229	231	236	234	236	238	251	252	250	247
411	3	F	198	211	212	210	215	218	220	211	214	220	216	217	221	224	232	239	235	234
412	3	F	196	202	205	211	211	205	210	211	206	211	212	230	235	247	254	257	262	264
413	3	F	207	220	216	222	227	227	226	224	226	229	228	230	231	235	242	254	262	267
414	3	F	213	212	214	220	217	221	228	222	219	227	226	---	---	---	---	---	---	---
415	3	F	216	230	227	232	236	239	246	241	228	263	257	257	---	---	---	---	---	---
416	3	F	225	237	236	243	244	250	252	253	237	252	253	255	260	270	277	282	286	294
417	3	F	212	228	224	226	231	234	240	238	230	236	248	245	246	254	259	268	274	277
418	3	F	205	216	217	222	219	224	235	237	235	231	240	249	265	264	270	278	284	283
419	3	F	216	217	221	219	230	234	233	234	223	238	239	235	245	249	255	256	264	268
420	3	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
421	3	F	225	235	238	236	237	243	250	251	227	238	247	244	242	247	256	252	258	265
422	3	F	202	219	222	220	226	228	230	230	237	237	229	236	240	243	251	263	267	266
423	3	F	211	224	221	228	234	234	237	237	226	230	235	249	251	267	272	271	278	284
424	3	F	234	248	250	251	254	262	266	272	262	286	284	290	294	304	313	314	324	326
425	3	F	203	212	221	217	221	222	224	227	210	238	231	232	---	---	---	---	---	---
426	3	F	201	220	224	222	227	234	236	238	241	238	242	244	249	258	264	288	291	291
427	3	F	204	214	216	216	222	222	230	236	231	240	244	245	239	246	246	253	252	258
428	3	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
429	3	F	201	206	210	212	217	219	214	219	218	224	227	227	---	---	---	---	---	---
430	3	F	197	210	206	212	216	224	233	232	231	226	243	241	245	250	253	256	258	256
431	3	F	224	229	237	241	244	249	249	254	250	246	252	257	259	265	262	274	284	289
432	3	F	214	230	225	232	233	238	240	244	242	250	257	261	260	264	277	284	288	285
433	3	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
434	3	F	191	203	203	208	211	213	215	213	215	218	216	---	---	---	---	---	---	---
435	3	F	217	227	228	231	233	234	240	244	248	245	255	258	254	265	280	280	287	279
436	3	F	198	214	215	218	220	218	222	217	216	218	226	225	224	238	243	248	256	255
437	3	F	208	209	212	218	221	222	231	232	236	235	241	252	262	272	281	283	279	289
438	3	F	211	217	225	224	226	230	236	240	237	240	247	250	249	258	263	268	274	274
439	3	F	189	206	204	208	214	217	220	221	216	221	225	229	240	239	252	256	264	270
440	3	F	203	210	210	212	218	221	224	233	220	234	233	232	233	236	243	252	253	256

--- = NO AVAILABLE DATA

Table VI.2 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L I D E N T I F I C A T I O N	S E X	T E S T W E E K	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
441	3	F	211	214	215	220	217	221	231	229	234	235	233	234	230	240	246	245	249	259	264	266
442	3	F	216	214	218	223	232	236	234	237	234	232	239	240	240	---	---	---	---	---	---	---
443	3	F	195	192	193	196	204	205	207	213	216	209	224	227	224	235	231	243	248	250	258	261
444	3	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
445	3	F	218	215	222	227	238	238	234	242	243	245	246	263	260	254	253	256	263	267	270	272
446	3	F	210	211	213	216	223	223	223	228	231	233	248	241	247	252	261	260	266	276	280	282
447	3	F	202	207	207	210	222	219	222	220	223	226	225	231	232	234	243	248	255	263	266	273
448	3	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
449	3	F	202	207	207	213	222	221	227	224	232	229	233	230	237	236	244	248	252	264	265	262
450	3	F	215	215	221	227	234	230	234	233	234	238	244	246	253	---	---	---	---	---	---	---
451	4	M	374	383	385	394	392	402	394	394	403	403	368	396	407	409	410	412	413	421	415	418
452	4	M	388	394	402	399	405	420	419	417	421	425	413	426	429	437	433	443	441	445	440	446
453	4	M	368	373	374	377	386	391	390	393	391	397	384	393	401	397	400	403	406	408	408	402
454	4	M	390	367	399	409	404	413	410	418	419	430	419	432	443	433	442	440	439	448	444	432
455	4	M	389	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
456	4	M	405	378	421	425	416	430	433	435	440	450	425	441	452	---	---	---	---	---	---	---
457	4	M	380	377	392	393	390	407	405	409	412	420	404	416	424	420	416	432	424	429	431	423
458	4	M	358	444	447	459	451	461	465	467	468	462	448	465	465	---	---	---	---	---	---	---
459	4	M	358	370	377	373	376	384	388	391	400	400	397	398	408	---	---	---	---	---	---	---
460	4	M	373	394	365	408	412	427	429	437	441	438	385	425	440	410	424	423	418	409	418	418
461	4	M	379	387	390	393	396	400	408	412	424	416	404	418	427	430	425	435	433	415	428	433
462	4	M	352	359	366	372	377	380	383	392	398	386	386	394	398	401	410	417	422	427	413	421
463	4	M	415	414	431	428	425	439	442	439	452	453	417	444	448	---	---	---	---	---	---	---
464	4	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
465	4	M	354	363	374	376	376	384	388	388	392	398	379	394	400	386	392	389	392	389	385	380
466	4	M	351	351	355	365	365	377	380	384	392	395	384	395	398	403	406	406	408	411	403	412
467	4	M	368	377	385	394	393	402	403	406	414	417	411	420	425	428	424	433	430	438	437	433
468	4	M	398	406	411	421	415	429	428	430	435	439	433	438	439	442	440	446	436	447	444	441
469	4	M	384	409	409	420	424	428	432	432	435	446	425	448	460	451	456	464	456	464	470	469
470	4	M	382	398	404	410	410	416	416	423	426	418	424	427	432	430	---	---	---	---	---	---
471	4	M	376	397	399	408	406	416	417	418	424	416	410	424	433	425	427	413	406	403	398	402
472	4	M	373	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
473	4	M	417	430	435	442	448	456	452	451	464	408	430	457	462	459	472	467	472	478	481	480
474	4	M	377	390	397	400	406	410	411	413	425	386	405	430	437	430	440	436	434	444	443	444
475	4	M	382	392	395	405	401	412	413	413	423	414	421	429	437	440	439	444	448	454	455	452
476	4	M	350	357	367	370	371	380	382	379	381	374	381	382	385	390	---	---	---	---	---	---
477	4	M	425	432	438	438	445	452	453	457	462	449	458	470	479	481	479	489	487	490	484	484
478	4	M	392	402	410	416	412	423	424	420	424	410	390	418	421	429	429	431	433	442	432	438
479	4	M	394	400	402	406	403	403	411	400	409	411	391	410	426	414	424	430	428	383	377	402
480	4	M	412	419	425	434	441	439	444	448	450	444	423	443	446	454	454	458	454	464	463	464

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T R O T O L U E N E	S E X	TEST WEEK																		65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	
481	M	380	402	403	417	424	423	431	433	445	433	449	455	454	448	449	458	464	466	467
482	M	445	454	462	472	478	482	480	482	484	455	471	486	496	485	491	502	501	513	517
483	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
484	M	345	358	359	360	368	373	377	371	384	371	374	381	386	392	395	398	386	402	411
485	M	405	413	412	421	419	429	428	426	438	423	428	435	438	---	---	---	---	---	---
486	M	310	312	318	328	332	329	336	330	347	337	331	347	356	---	---	---	---	---	---
487	M	410	409	432	435	439	441	445	441	442	436	439	452	454	458	461	464	464	470	463
488	M	349	354	358	370	374	372	376	377	383	376	384	392	394	396	398	400	407	407	409
489	M	366	376	374	390	389	398	406	406	411	397	397	413	408	416	417	429	427	427	419
490	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
491	M	345	355	361	363	368	374	371	378	383	379	384	393	394	393	397	397	402	410	408
492	M	370	387	389	394	408	408	405	414	418	404	397	416	413	391	---	---	---	---	---
493	M	350	356	361	369	369	373	374	383	383	376	350	379	386	382	388	392	394	394	393
494	M	409	415	421	426	440	433	443	444	454	448	440	458	461	460	470	470	468	474	476
495	M	378	376	394	396	405	403	404	407	419	412	415	423	425	420	425	427	428	431	436
496	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
497	M	347	364	362	373	368	370	379	375	376	374	388	388	384	---	---	---	---	---	---
498	M	384	405	414	421	427	430	429	431	434	426	434	446	447	445	438	446	446	440	445
499	M	429	429	442	448	455	454	456	458	472	435	449	467	469	468	480	484	485	491	486
500	M	367	371	375	387	387	386	398	396	397	379	378	385	398	406	409	412	415	419	416
501	M	372	384	390	394	398	402	406	402	411	407	414	422	423	423	429	431	437	447	443
502	M	382	395	410	411	398	418	427	426	434	428	418	430	446	438	450	452	451	452	454
503	M	400	407	418	422	423	439	429	441	447	423	432	446	451	456	457	456	460	464	465
504	M	398	408	411	413	424	432	431	432	441	418	425	437	444	446	443	447	450	455	448
505	M	374	389	393	402	401	416	410	416	418	387	404	406	416	410	414	420	429	433	427
506	M	362	368	369	382	381	387	384	385	385	359	378	382	392	396	399	401	403	407	408
507	M	363	369	374	384	386	391	391	391	398	380	390	398	398	396	404	405	412	411	406
508	M	301	308	302	312	322	321	324	323	332	323	331	340	337	338	---	---	---	---	---
509	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
510	M	364	372	374	386	385	385	392	395	396	386	395	400	403	406	402	400	402	408	410
511	M	384	383	394	401	405	408	402	409	417	401	414	416	407	412	427	421	431	432	427
512	M	410	411	420	432	426	438	430	428	444	416	432	441	443	445	449	453	459	460	463
513	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
514	M	374	384	396	402	409	411	407	407	419	403	408	413	416	421	411	416	417	428	430
515	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
516	M	368	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
517	M	391	395	409	412	418	415	425	415	428	413	405	429	431	---	---	---	---	---	---
518	M	395	396	410	413	422	427	429	428	435	429	405	438	451	442	450	454	456	456	448
519	M	389	410	420	427	429	432	434	434	438	435	425	440	442	442	444	453	461	458	464
520	M	414	416	429	440	440	446	446	446	446	438	455	457	461	463	465	469	472	471	474

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T I M E S E X	TEST WEEK																				
	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65	
521	4	M	339	346	353	366	369	370	362	367	369	357	354	373	378	370	377	385	388	390	388
522	4	M	362	364	380	384	388	394	390	392	396	382	397	406	409	405	410	414	416	418	410
523	4	M	365	380	382	383	393	400	398	398	406	384	389	398	401	406	395	411	414	409	411
524	4	M	371	376	388	389	394	397	394	396	409	392	391	406	410	400	413	419	413	419	416
525	4	M	374	389	395	403	403	405	407	410	411	378	397	412	418	411	415	419	422	428	427
526	4	F	156	161	160	167	163	170	170	166	170	174	171	170	166	172	172	171	171	171	176
527	4	F	220	220	224	226	226	234	230	236	239	242	224	252	246	246	---	---	---	---	---
528	4	F	176	178	181	184	180	192	193	191	196	200	204	207	217	217	222	224	232	239	243
529	4	F	190	193	195	199	200	210	209	207	214	217	206	221	222	---	---	---	---	---	---
530	4	F	227	224	235	237	236	244	248	244	251	258	242	257	259	255	249	248	257	269	284
531	4	F	185	191	195	197	191	198	194	206	206	209	202	207	212	---	---	---	---	---	---
532	4	F	205	214	215	215	213	220	222	226	226	228	228	233	230	232	238	247	254	257	260
533	4	F	202	209	214	210	210	218	221	218	221	224	223	227	223	227	224	231	228	228	237
534	4	F	210	216	220	221	223	225	229	232	234	235	218	247	247	241	246	241	247	255	254
535	4	F	228	232	237	239	243	248	254	255	256	255	261	264	253	255	270	267	282	293	285
536	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
537	4	F	204	205	210	211	213	218	221	223	227	228	225	229	226	228	232	234	244	249	250
538	4	F	208	214	219	222	215	228	223	226	230	230	231	237	240	---	---	---	---	---	---
539	4	F	209	210	215	220	217	243	251	254	260	259	257	264	268	269	276	281	289	296	296
540	4	F	201	204	213	220	205	222	219	222	220	223	227	233	229	210	219	225	233	236	235
541	4	F	202	204	204	205	207	213	217	214	218	220	221	225	226	233	239	244	246	251	258
542	4	F	221	220	225	230	231	236	233	236	241	239	223	247	242	243	---	---	---	---	---
543	4	F	201	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
544	4	F	213	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
545	4	F	209	209	215	223	223	229	232	231	236	237	236	240	236	238	247	251	255	262	276
546	4	F	172	170	175	180	180	186	187	191	192	196	189	196	196	195	200	203	209	217	220
547	4	F	210	216	216	222	228	229	234	236	239	242	241	240	249	252	247	254	257	258	262
548	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
549	4	F	232	234	239	244	243	245	253	257	260	262	243	259	260	266	267	280	289	304	308
550	4	F	213	216	219	225	222	223	228	231	239	238	237	240	240	246	258	267	268	282	282
551	4	F	192	190	198	202	199	201	206	209	209	211	209	214	215	221	215	223	225	230	234
552	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
553	4	F	203	210	211	217	217	222	224	222	224	230	222	229	229	231	219	225	236	244	251
554	4	F	187	190	196	198	197	197	202	202	208	207	194	212	213	212	200	215	221	244	240
555	4	F	223	227	227	230	235	238	243	243	245	258	255	261	262	---	---	---	---	---	---
556	4	F	201	206	211	219	224	229	234	228	227	222	228	224	224	222	231	230	236	240	244
557	4	F	201	209	206	214	217	220	220	220	220	217	218	220	224	224	---	---	---	---	---
558	4	F	204	200	207	211	209	215	219	212	223	222	220	226	226	223	225	230	230	234	239
559	4	F	204	208	210	209	214	213	216	223	222	219	226	227	228	229	226	224	230	238	246
560	4	F	202	208	210	211	213	213	220	218	224	223	230	229	224	225	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L N O S O U P X	TEST WEEK																			
	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
561	4	F	215	203	212	214	212	217	218	210	223	221	224	228	229	223	220	227	230	237
562	4	F	200	212	226	226	222	222	223	223	232	232	238	238	241	247	249	250	259	263
563	4	F	211	216	222	216	215	219	219	221	222	225	228	232	237	249	250	254	259	264
564	4	F	197	190	210	210	214	215	219	221	222	225	228	232	237	249	250	254	259	264
565	4	F	195	196	198	204	211	208	212	219	224	225	214	225	223	226	230	236	241	242
566	4	F	182	186	183	---	194	192	198	197	199	196	197	---	---	---	---	---	---	---
567	4	F	216	223	222	229	235	236	240	250	260	265	263	---	---	---	---	---	---	---
568	4	F	204	202	209	215	219	221	224	221	227	230	239	236	250	258	258	264	268	266
569	4	F	174	176	182	182	187	186	191	189	191	190	192	196	197	206	200	212	211	214
570	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571	4	F	195	200	202	210	213	219	224	229	235	233	237	235	242	249	255	257	259	264
572	4	F	200	206	205	208	209	210	221	220	223	218	229	234	237	246	250	265	274	278
573	4	F	196	200	200	198	203	209	209	208	222	218	220	220	230	234	246	255	256	261
574	4	F	192	192	195	200	204	207	210	208	214	218	214	210	214	221	221	228	227	234
575	4	F	199	198	198	205	207	214	210	198	222	215	212	218	218	221	227	228	239	239
576	4	F	208	207	215	220	222	216	220	228	232	226	229	236	238	246	248	256	261	267
577	4	F	210	212	214	215	224	219	222	223	232	233	237	239	243	251	253	259	266	275
578	4	F	189	194	192	194	196	199	204	198	210	209	207	206	214	219	220	228	231	238
579	4	F	207	206	208	210	219	216	220	228	227	229	237	242	245	257	260	262	267	273
580	4	F	217	216	218	223	229	226	225	230	224	228	239	234	233	245	255	264	265	266
581	4	F	203	211	216	221	224	222	226	227	233	234	242	240	242	253	253	258	260	259
582	4	F	206	215	214	223	222	224	227	236	239	242	242	239	243	253	254	263	264	275
583	4	F	205	189	208	210	214	220	221	226	226	224	235	241	245	252	256	260	264	274
584	4	F	188	190	189	194	201	200	202	198	206	209	209	210	212	219	221	227	230	230
585	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
586	4	F	189	197	204	203	208	208	212	209	206	209	212	210	216	216	216	221	226	229
587	4	F	202	200	210	215	216	219	224	224	224	234	238	237	247	259	271	275	280	281
588	4	F	188	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589	4	F	205	208	209	212	210	215	223	221	224	226	235	234	240	238	249	255	254	259
590	4	F	202	207	203	209	213	220	225	217	223	225	227	228	240	250	261	257	262	272
591	4	F	193	197	199	206	208	213	214	222	216	221	224	228	232	236	237	248	245	247
592	4	F	209	214	218	217	223	227	228	230	225	232	234	235	245	254	256	260	263	265
593	4	F	197	204	205	215	220	215	218	215	222	221	219	216	221	233	237	244	246	242
594	4	F	202	202	205	210	215	212	216	214	218	218	218	222	223	233	241	248	239	247
595	4	F	197	201	215	220	216	219	221	225	206	228	221	228	232	232	234	238	242	249
596	4	F	222	224	226	225	229	236	239	236	241	248	251	252	250	259	261	265	270	290
597	4	F	205	204	207	206	210	212	215	216	218	221	214	218	224	226	227	227	227	231
598	4	F	191	193	198	200	204	208	207	213	212	215	221	226	224	233	238	241	242	252
599	4	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
600	4	F	207	210	211	216	224	220	221	230	222	226	229	235	264	258	263	271	277	282

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T R O P O X	S E X	TEST WEEK																61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59		
601	S	M	391	399	408	406	416	419	428	408	438	413	423	435	429	436	439	439	449	446
602	S	M	345	361	366	366	370	381	379	365	388	366	377	388	395	391	395	396	401	396
603	S	M	334	341	351	347	363	367	364	350	373	355	369	378	---	---	---	---	---	---
604	S	M	323	329	337	332	346	347	349	354	351	342	340	357	349	356	360	363	369	366
605	S	M	342	351	358	363	361	373	375	382	384	344	359	380	---	---	---	---	---	---
606	S	M	394	400	414	413	422	430	425	433	442	396	416	439	440	---	---	---	---	---
607	S	M	355	361	374	376	390	383	391	401	402	382	394	401	---	---	---	---	---	---
608	S	M	370	385	391	390	398	401	408	414	406	364	392	407	408	415	417	407	415	418
609	S	M	374	380	396	382	399	399	399	406	410	384	377	400	402	407	406	398	411	408
610	S	M	322	325	339	333	340	345	346	346	351	319	343	355	359	362	360	354	363	355
611	S	M	369	386	394	409	408	409	409	414	415	368	409	424	419	428	427	432	433	424
612	S	M	370	383	389	394	404	406	410	413	421	370	398	418	416	415	420	420	420	408
613	S	M	327	331	338	350	354	356	364	372	369	353	371	376	376	388	383	387	392	396
614	S	M	332	344	338	349	352	362	361	363	375	360	375	383	---	---	---	---	---	---
615	S	M	343	346	341	350	353	366	373	381	384	341	378	387	384	384	385	388	397	398
616	S	M	383	392	395	400	392	401	406	409	407	367	383	407	411	411	407	401	412	401
617	S	M	365	370	379	380	372	389	388	385	383	345	379	389	396	396	390	392	393	394
618	S	M	348	360	362	364	368	379	377	381	382	365	379	389	389	389	399	399	397	387
619	S	M	380	382	395	394	400	404	411	415	413	393	403	404	412	---	---	---	---	---
620	S	M	370	375	380	383	387	391	401	401	400	388	404	409	407	410	413	412	416	406
621	S	M	339	345	353	355	359	363	366	374	366	334	354	370	374	374	374	379	383	384
622	S	M	321	328	336	340	339	348	352	360	359	351	366	375	369	373	379	373	381	375
623	S	M	371	370	382	392	386	396	406	412	414	377	400	403	406	414	413	414	413	414
624	S	M	348	355	361	373	366	371	378	378	380	362	375	385	382	390	391	390	392	394
625	S	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
626	S	M	352	358	365	367	379	382	375	386	389	377	383	390	394	394	393	400	403	394
627	S	M	341	352	358	364	369	377	374	380	387	345	371	387	388	390	399	402	396	401
628	S	M	327	314	325	317	318	323	320	310	318	297	321	328	326	332	334	330	325	311
629	S	M	357	370	375	378	379	386	392	402	402	358	383	401	410	400	409	412	411	405
630	S	M	357	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
631	S	M	357	366	365	370	374	377	383	397	392	362	380	403	403	404	404	406	407	390
632	S	M	326	334	342	350	352	354	359	359	355	326	365	370	369	371	378	381	390	382
633	S	M	332	372	382	387	392	389	389	396	403	392	404	401	376	364	341	314	312	290
634	S	M	332	331	336	345	351	352	347	355	363	331	347	356	---	---	---	---	---	---
635	S	M	318	325	323	330	328	342	344	348	359	345	356	353	362	364	364	366	373	365
636	S	M	308	313	312	319	321	328	334	335	341	340	345	346	349	351	345	344	347	351
637	S	M	352	359	366	372	373	377	378	382	378	350	379	386	388	386	388	386	389	386
638	S	M	359	361	371	372	375	377	381	382	361	354	367	385	388	385	388	384	387	381
639	S	M	354	357	368	376	381	386	386	393	375	373	389	392	390	395	399	394	402	394
640	S	M	327	338	346	352	364	366	358	373	347	360	375	383	376	380	381	387	386	383

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N T M A L R N O U P X	S	TEST WEEK																63	65		
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61		
641	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
642	5	M	362	374	385	391	399	405	407	416	412	414	426	424	428	417	430	427	423	419	412
643	5	M	361	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
644	5	M	337	340	353	358	361	367	369	368	364	360	375	385	376	382	387	386	392	392	391
645	5	M	348	352	352	352	366	370	373	372	363	378	388	389	387	385	390	390	394	390	391
646	5	M	344	350	349	357	364	369	364	372	335	347	370	377	373	373	384	376	380	376	376
647	5	M	326	331	335	337	341	348	349	353	344	352	358	361	358	363	366	366	365	368	368
648	5	M	386	387	390	400	404	400	412	417	376	399	416	424	421	421	421	420	424	422	426
649	5	M	372	383	372	392	395	400	405	406	394	387	405	412	412	408	415	420	418	413	405
650	5	M	312	321	319	338	348	345	346	351	344	337	345	349	346	335	354	355	353	351	355
651	5	M	363	371	362	378	386	386	391	392	365	379	393	403	401	390	407	403	403	410	405
652	5	M	336	344	350	356	354	359	360	367	354	354	372	372	370	379	381	377	385	383	382
653	5	M	348	356	356	364	371	371	372	382	356	338	371	378	385	384	395	394	395	396	395
654	5	M	350	353	355	360	364	365	372	375	361	349	376	379	375	378	384	381	389	377	381
655	5	M	360	363	374	379	386	389	391	388	380	371	393	398	402	397	408	409	414	409	409
656	5	M	272	274	280	287	286	294	293	296	289	288	304	308	302	309	312	312	313	318	321
657	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
658	5	M	359	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
659	5	M	352	351	364	373	373	375	383	382	346	379	394	396	394	392	399	399	400	394	397
660	5	M	332	343	351	353	358	360	355	353	323	341	359	370	---	---	---	---	---	---	---
661	5	M	339	348	353	354	364	365	363	364	356	371	377	378	376	383	384	384	393	389	377
662	5	M	365	376	379	382	392	396	397	399	393	399	408	420	416	420	415	419	423	419	421
663	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
664	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
665	5	M	326	335	339	348	354	365	358	360	344	324	353	365	363	362	363	370	370	372	373
666	5	M	338	343	348	361	365	366	369	370	354	373	379	383	---	---	---	---	---	---	---
667	5	M	362	372	382	389	394	400	403	398	368	391	406	410	401	411	418	418	423	424	422
668	5	M	342	354	363	362	367	372	372	380	356	367	382	385	383	---	---	---	---	---	---
669	5	M	331	338	340	350	352	353	355	352	337	348	369	374	366	370	373	379	377	379	374
670	5	M	356	351	373	378	378	385	385	383	365	379	381	389	388	394	401	397	398	397	398
671	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
672	5	M	321	317	335	338	343	350	353	351	339	346	354	350	357	363	361	361	363	367	361
673	5	M	349	332	347	360	362	369	369	374	329	361	380	380	378	383	386	385	388	389	387
674	5	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
675	5	M	405	412	414	417	427	432	431	430	387	408	437	440	436	437	439	437	444	440	434
676	5	F	192	195	197	198	200	205	206	205	211	206	213	211	215	213	218	214	222	223	230
677	5	F	183	190	193	188	188	193	199	197	201	193	210	207	203	205	204	207	208	213	206
678	5	F	180	181	183	182	185	188	190	194	215	201	206	196	205	210	213	214	219	220	217
679	5	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
680	5	F	194	198	202	203	198	206	209	212	216	197	212	214	218	218	217	216	222	223	223

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T M A L G R N O S O P X	TEST WEEK																			
	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
681	5	F	185	185	191	195	196	207	207	206	198	207	210	209	206	213	213	218	217	220
682	5	F	182	183	185	186	194	192	192	185	194	202	205	202	198	201	204	206	206	202
683	5	F	166	175	172	173	179	178	181	177	180	174	184	184	182	186	187	190	192	194
684	5	F	178	181	192	180	186	185	187	182	188	179	188	189	191	191	193	195	199	202
685	5	F	189	192	199	201	202	205	201	207	211	183	214	214	215	212	219	219	219	221
686	5	F	184	192	193	194	196	201	200	205	201	187	202	204	206	205	211	208	212	216
687	5	F	194	197	199	201	203	209	212	215	214	210	216	214	---	---	---	---	---	---
688	5	F	180	182	185	185	183	179	193	195	195	186	201	200	199	198	197	201	209	212
689	5	F	173	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
690	5	F	198	201	203	204	207	194	208	212	209	228	225	---	---	---	---	---	---	---
691	5	F	194	195	198	198	196	202	203	199	206	211	210	205	206	208	212	215	218	216
692	5	F	215	221	221	219	223	229	229	229	237	236	240	245	238	238	243	246	248	245
693	5	F	190	190	194	197	200	204	203	202	209	211	213	216	226	227	235	243	250	249
694	5	F	189	194	199	199	199	202	208	205	211	207	199	216	209	213	215	218	228	225
695	5	F	186	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
696	5	F	172	188	191	195	195	195	201	202	202	189	207	206	201	204	206	206	208	212
697	5	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
698	5	F	194	194	199	198	200	205	208	209	211	206	216	214	214	215	226	221	226	233
699	5	F	198	201	204	204	210	210	210	212	213	214	226	222	216	222	224	224	228	229
700	5	F	192	197	201	203	201	202	203	205	209	212	212	215	214	216	220	220	224	226
701	5	F	187	191	189	191	196	197	198	194	201	199	212	205	203	206	213	212	210	214
702	5	F	182	184	184	186	191	195	193	192	195	200	207	206	203	207	208	207	209	212
703	5	F	183	193	193	194	197	199	203	202	204	205	216	213	213	216	212	220	218	226
704	5	F	169	171	170	172	174	179	178	179	184	184	183	187	185	187	190	189	193	192
705	5	F	180	181	182	181	183	188	187	189	194	196	191	194	200	200	198	202	207	208
706	5	F	154	158	156	159	160	162	163	164	166	166	168	172	171	175	175	180	189	180
707	5	F	179	188	186	185	191	191	198	197	198	194	201	202	198	201	199	203	203	203
708	5	F	189	188	191	193	197	197	193	198	203	196	203	204	207	205	206	212	213	216
709	5	F	179	184	187	189	193	196	195	194	195	185	196	201	210	206	205	208	212	211
710	5	F	187	185	194	195	197	199	196	200	202	192	196	202	207	212	208	212	213	210
711	5	F	190	195	199	197	201	197	205	204	212	204	219	212	214	219	225	226	236	231
712	5	F	174	175	171	174	178	183	183	183	185	183	189	190	190	191	194	193	199	194
713	5	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
714	5	F	185	184	193	192	195	197	199	201	205	199	204	204	207	206	211	212	214	212
715	5	F	185	172	184	189	196	201	200	197	204	193	201	202	205	207	211	218	222	225
716	5	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
717	5	F	193	182	195	202	202	208	207	208	208	204	216	216	219	---	---	---	---	---
718	5	F	180	182	185	184	189	192	193	190	196	188	195	202	198	200	---	---	---	---
719	5	F	187	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
720	5	F	187	182	187	191	192	195	196	196	196	193	193	191	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENT<sup>a</sup> (grams)

A N T I M E A L I D N O P S	TEST WEEK																				
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
721	S	199	205	208	209	214	219	218	218	220	219	223	209	226	227	230	228	232	239	234	240
722	S	200	204	209	207	216	217	220	220	222	208	226	209	226	227	236	240	24	248	248	254
723	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
724	S	189	189	190	196	198	197	198	201	209	192	200	205	204	207	211	213	216	227	222	224
725	S	184	187	190	187	192	188	191	189	193	192	199	199	200	---	---	---	---	---	---	---
726	S	179	182	186	187	191	194	197	195	203	192	204	204	200	207	203	212	211	218	216	217
727	S	184	185	186	189	196	191	196	194	193	193	198	204	199	---	---	---	---	---	---	---
728	S	195	193	201	198	207	200	203	202	205	186	204	205	205	212	211	215	218	221	221	225
729	S	190	184	195	196	199	201	203	202	204	199	200	208	210	210	212	219	215	217	219	220
730	S	175	178	179	180	181	185	188	187	190	175	188	191	193	---	---	---	---	---	---	---
731	S	182	177	186	186	186	190	187	187	196	190	197	193	195	194	202	203	198	207	212	208
732	S	186	184	188	188	192	190	189	191	192	182	189	197	194	196	198	198	203	213	206	207
733	S	205	212	218	200	216	216	215	212	224	201	218	225	220	219	221	223	226	230	225	232
734	S	205	206	209	203	216	214	216	210	216	206	215	217	222	222	221	222	224	235	231	241
735	S	191	197	194	191	204	200	200	199	204	179	203	206	201	208	---	---	---	---	---	---
736	S	189	192	200	200	203	209	203	207	207	186	203	206	204	205	212	208	212	213	214	214
737	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
738	S	190	187	191	196	200	200	197	204	202	198	205	210	203	210	216	221	221	228	227	234
739	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
740	S	184	188	190	190	195	193	200	199	205	193	210	212	206	210	207	211	215	219	213	215
741	S	200	195	203	208	213	209	213	212	214	199	216	221	220	221	224	229	236	240	239	241
742	S	177	202	202	195	194	199	208	206	206	183	203	206	204	210	211	215	219	224	217	219
743	S	174	187	186	186	187	190	194	194	194	186	195	198	198	203	202	205	202	207	207	219
744	S	182	195	197	197	198	198	202	196	202	204	206	207	203	205	206	210	212	214	210	212
745	S	191	195	195	199	199	199	201	202	195	201	205	207	201	206	210	210	213	218	216	216
746	S	186	192	197	197	200	197	201	200	202	185	201	205	206	204	208	209	217	222	215	224
747	S	189	188	187	189	195	192	198	199	193	187	211	208	199	---	---	---	---	---	---	---
748	S	191	187	194	196	200	200	200	201	207	205	211	211	211	209	221	218	222	229	226	229
749	S	202	204	203	207	211	211	215	215	220	203	225	228	223	230	233	236	234	238	233	240
750	S	179	174	178	183	185	180	184	182	190	182	190	186	184	184	192	193	194	196	195	198

--- = NO AVAILABLE DATA

----- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T R O T O L U E N E	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
11	M	374	389	391	389	398	398	376	392	394	400	398	381	383	392	383	385	382	378	379
12	M	490	490	484	492	480	488	475	482	471	471	471	469	471	472	468	463	459	457	458
13	M	458	466	464	464	464	458	449	451	450	453	444	441	440	436	437	423	418	395	350
14	M	445	452	449	448	450	437	438	439	421	434	434	438	436	442	429	429	425	422	416
15	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	M	494	499	500	505	497	494	498	491	485	498	488	490	486	483	479	471	466	442	392
19	M	495	505	496	501	496	491	488	480	479	476	476	463	466	458	448	456	446	439	437
20	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	M	484	491	488	492	487	490	490	480	480	488	487	487	490	488	486	474	444	451	441
22	M	432	432	432	432	428	430	424	434	438	438	443	444	447	445	452	448	435	421	401
23	M	480	484	474	481	472	474	461	462	461	466	462	458	457	461	445	412	389	338	---
24	M	476	480	474	475	476	469	478	465	418	339	---	---	---	---	---	---	---	---	---
25	M	448	436	441	445	445	444	433	440	438	44	441	434	446	446	451	439	440	440	435
26	M	459	446	454	436	438	432	435	427	425	428	418	414	416	414	412	413	408	418	394
27	M	467	459	468	467	468	465	456	453	460	465	399	433	381	406	440	446	447	---	---
28	M	467	462	466	467	448	446	445	441	439	436	438	436	439	434	403	307	---	---	---
29	M	465	467	449	451	445	438	405	354	---	---	---	---	---	---	---	---	---	---	---
30	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	M	434	439	440	442	444	444	438	432	440	434	424	415	437	432	429	426	418	406	415
32	M	420	424	419	423	427	420	418	424	415	415	416	416	418	420	415	400	405	395	391
33	M	493	499	494	499	504	504	482	462	478	483	483	476	473	409	---	---	---	---	---
34	M	433	437	419	427	431	409	418	417	423	414	385	---	---	---	---	---	---	---	---
35	M	496	503	493	485	489	486	472	468	464	467	460	454	451	453	437	436	431	420	409
36	M	405	403	399	411	409	411	412	412	417	416	422	424	420	414	419	418	416	422	420
37	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
38	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39	M	494	498	498	502	504	493	494	486	488	494	487	485	469	464	441	324	---	---	---
40	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
41	M	493	490	484	484	494	479	475	466	466	477	465	461	447	448	409	312	---	---	---
42	M	450	434	440	445	448	439	442	436	439	442	447	442	439	455	417	416	298	---	---
43	M	407	404	405	401	400	400	389	396	393	394	396	393	371	372	381	388	382	388	376
44	M	471	472	469	470	474	473	475	479	476	492	523	553	594	632	680	704	---	---	---
45	M	470	471	461	449	468	462	458	446	450	447	451	449	450	444	450	449	445	442	434
46	F	294	297	290	299	294	302	307	302	297	308	309	312	321	322	322	318	318	319	308
47	F	302	306	302	303	305	311	313	310	303	309	314	319	324	330	326	327	328	329	333
48	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
49	F	324	322	331	333	341	342	338	327	304	280	245	222	---	---	---	---	---	---	---
50	F	376	300	305	307	314	324	329	330	324	334	334	336	342	326	337	349	352	370	312

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T M A L G R O U P	S E X	TEST WEEK																103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101
81	F	282	276	280	283	285	295	297	292	290	300	307	307	310	319	320	326	328	329
82	F	283	290	294	294	296	295	299	298	302	300	307	307	312	314	305	310	312	315
83	F	286	285	292	297	301	305	299	302	314	319	323	324	333	332	335	339	339	344
84	F	293	296	299	300	310	312	311	311	315	326	324	330	327	337	332	341	337	348
85	F	231	235	242	241	245	250	248	252	260	258	259	262	267	274	271	271	274	273
86	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
87	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
88	F	223	235	227	234	244	253	247	248	252	263	246	242	246	235	217	210	206	---
89	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
91	F	280	278	278	288	291	297	304	302	302	313	315	327	331	340	334	335	332	328
92	F	272	276	281	287	284	288	295	298	300	311	314	314	314	325	320	319	322	327
93	F	241	246	258	259	258	274	263	273	280	285	283	289	292	295	299	294	294	289
94	F	306	312	314	316	315	319	321	320	325	327	333	334	344	334	337	349	339	345
95	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
96	F	283	291	294	295	296	293	287	296	309	311	314	317	326	333	329	332	316	316
97	F	295	302	308	304	271	---	---	---	---	---	---	---	---	---	---	---	---	---
98	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
99	F	268	278	276	279	276	274	275	274	277	279	275	275	276	291	290	289	294	294
100	F	271	277	280	278	282	294	289	297	296	306	278	225	196	---	---	---	---	---
101	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102	F	299	304	305	317	322	321	317	329	326	327	332	338	342	339	324	329	324	313
103	F	255	259	262	262	270	270	271	271	271	277	274	273	279	285	278	281	277	270
104	F	268	271	272	274	275	287	280	286	292	297	295	298	308	308	306	310	316	318
105	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106	F	304	315	311	312	315	323	319	301	273	256	244	202	236	236	---	---	---	---
107	F	242	257	252	250	259	261	259	261	266	264	272	267	270	275	267	274	276	280
108	F	262	259	259	248	249	---	---	---	---	---	---	---	---	---	---	---	---	---
109	F	318	330	333	334	334	345	348	344	354	352	357	364	368	338	328	316	---	---
110	F	296	303	306	314	316	320	319	321	320	318	318	325	327	323	316	305	298	280
111	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
112	F	271	266	274	266	274	270	276	272	278	278	275	285	279	285	286	286	291	292
113	F	261	256	262	261	270	275	281	285	290	288	297	305	307	314	316	315	314	316
114	F	305	295	307	299	311	311	317	319	318	328	329	325	320	329	317	309	308	305
115	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
116	F	234	234	240	245	250	260	255	253	264	264	253	257	256	264	265	273	272	274
117	F	266	269	272	284	288	297	297	298	301	302	310	312	318	320	324	328	328	326
118	F	286	291	285	292	302	299	306	307	302	309	305	318	316	318	313	301	281	231
119	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
120	F	290	302	299	302	305	312	312	308	316	321	318	327	326	320	323	324	327	322

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N T M A L G R N O S O P X		TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
121	1 F	269	273	271	274	277	278	281	284	284	287	293	291	293	292	287	280	276	269	268	272
122	1 F	256	264	263	271	272	282	278	283	288	291	293	296	300	300	299	298	301	302	295	297
123	1 F	295	300	295	302	306	309	307	305	310	318	313	312	320	316	326	323	325	328	320	324
124	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
125	1 F	293	300	300	303	306	316	317	319	319	320	319	326	328	330	328	341	342	347	329	288
126	1 F	292	311	305	321	313	318	329	329	332	339	347	350	352	362	359	354	367	356	344	336
127	1 F	270	277	259	256	245	257	256	266	273	281	282	295	304	307	309	316	314	316	320	---
128	1 F	287	292	285	289	287	291	295	294	298	295	299	306	308	311	307	307	312	312	336	313
129	1 F	296	304	297	299	296	303	304	300	302	303	305	306	316	323	327	322	320	335	330	328
130	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
131	1 F	298	306	305	306	316	310	314	317	316	324	323	324	324	321	325	326	316	299	287	286
132	1 F	270	277	275	277	281	280	283	283	282	286	282	284	291	292	298	298	290	245	223	---
133	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
134	1 F	274	275	273	287	296	297	308	293	287	276	290	285	275	284	261	242	228	233	---	---
135	1 F	308	316	306	310	323	336	330	327	332	308	324	323	323	344	344	328	326	322	325	296
136	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
137	1 F	314	322	329	334	342	342	347	347	350	349	350	349	351	348	351	331	296	---	---	---
138	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
139	1 F	290	295	294	303	307	304	308	310	311	313	317	309	306	298	286	243	---	---	---	---
140	1 F	256	263	261	267	270	276	281	279	280	283	288	290	288	290	293	297	289	292	290	282
141	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
142	1 F	301	286	258	219	182	236	225	223	---	---	---	---	---	---	---	---	---	---	---	---
143	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
144	1 F	292	302	298	305	305	311	305	300	291	281	262	257	255	282	290	305	299	283	276	271
145	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
146	1 F	266	264	275	278	290	290	282	288	289	296	298	300	300	295	294	302	294	303	303	---
147	1 F	274	285	277	289	295	296	282	284	299	313	331	337	329	350	345	375	400	418	412	---
148	1 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
149	1 F	287	296	298	303	308	305	309	311	300	295	291	302	304	316	316	323	315	312	311	310
150	1 F	285	289	295	305	305	303	301	304	306	310	310	310	320	318	318	321	317	319	318	316
151	2 M	468	470	469	479	477	477	469	468	471	466	469	470	476	472	468	470	468	477	475	466
152	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
153	2 M	429	427	421	414	414	411	412	399	406	406	412	400	419	410	414	416	404	400	372	357
154	2 M	466	472	460	460	451	444	442	412	375	311	---	---	---	---	---	---	---	---	---	---
155	2 M	493	487	487	488	484	481	477	476	476	480	471	474	475	464	464	460	455	452	446	434
156	2 M	480	477	468	452	448	417	---	---	---	---	---	---	---	---	---	---	---	---	---	---
157	2 M	431	434	441	442	448	440	434	431	431	440	436	429	430	425	426	425	425	427	398	365
158	2 M	442	431	443	442	429	436	444	428	439	430	435	428	424	426	429	437	427	425	405	407
159	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
160	2 M	459	451	456	448	456	449	434	437	454	444	444	408	359	336	305	255	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
161	2	477	485	485	491	488	482	474	478	480	477	469	439	414	289	---	---	---	---	---
162	2	449	444	435	425	446	442	435	430	443	438	435	423	408	407	404	411	408	408	401
163	2	503	510	507	509	506	499	500	491	499	498	491	493	482	479	465	459	454	437	412
164	2	462	466	460	455	455	449	454	452	456	459	446	442	457	481	477	---	---	---	---
165	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
166	2	464	462	465	466	467	459	459	466	459	466	459	461	461	465	461	456	445	441	427
167	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
168	2	447	452	455	461	453	452	449	456	453	445	450	442	443	440	434	388	320	260	---
169	2	488	487	481	481	477	472	476	472	472	467	470	463	449	401	423	356	---	---	---
170	2	436	432	429	430	434	433	415	419	421	425	432	419	428	420	425	422	417	416	412
171	2	437	436	429	424	422	413	407	407	410	410	404	411	404	405	401	398	392	390	341
172	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
173	2	463	467	462	465	461	458	461	462	452	454	445	447	451	445	446	446	446	442	312
174	2	513	516	516	519	521	522	518	514	510	508	498	492	487	482	480	481	480	482	467
175	2	463	467	465	461	455	455	444	443	441	437	435	430	434	436	420	411	398	393	369
176	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
177	2	434	440	437	443	441	446	428	420	424	428	425	420	420	421	416	416	417	417	404
178	2	441	445	440	447	444	447	443	446	445	445	448	444	451	441	442	439	430	417	363
179	2	479	473	473	472	472	471	463	470	465	455	455	456	456	454	453	457	456	449	446
180	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
181	2	448	452	454	451	448	444	440	438	420	385	350	303	---	---	---	---	---	---	---
182	2	456	445	451	450	451	456	454	454	452	446	447	445	445	435	432	432	430	434	412
183	2	439	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
184	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
185	2	492	493	484	482	476	477	463	452	450	420	412	398	387	373	374	364	363	354	328
186	2	468	470	463	470	467	464	462	465	466	462	465	461	449	438	441	428	426	418	409
187	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
188	2	468	472	464	472	463	448	394	403	386	415	431	420	356	---	---	---	---	---	---
189	2	473	475	464	475	482	464	430	404	387	242	---	---	---	---	---	---	---	---	---
190	2	432	444	438	445	447	444	445	443	441	442	432	428	419	422	415	422	422	421	409
191	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
192	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
193	2	421	410	399	408	392	380	326	290	---	---	---	---	---	---	---	---	---	---	---
194	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
195	2	442	445	446	445	452	446	439	440	437	435	425	419	427	418	420	411	408	400	391
196	2	423	428	429	430	429	420	422	424	420	420	422	413	420	418	414	414	410	396	263
197	2	410	408	409	413	412	406	413	404	409	407	411	392	401	406	400	396	382	385	359
198	2	470	471	462	465	466	464	466	461	460	462	469	460	462	472	471	474	468	466	460
199	2	497	494	499	496	486	485	479	482	478	469	454	446	440	435	431	430	425	422	412
200	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T I A L G R O U P	S E X	TEST WEEK																		101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99				
201	2	477	473	480	480	476	454	427	403	378	349	---	---	---	---	---	---	---	---	---	---	
202	2	441	447	453	440	438	439	444	450	445	433	429	426	429	425	421	416	413	419	413	406	
203	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
204	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
205	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
206	2	500	502	502	499	496	492	460	---	---	---	---	---	---	---	---	---	---	---	---	---	
207	2	467	469	472	467	471	468	468	452	455	436	437	441	445	440	347	276	---	---	---	---	
208	2	509	507	508	509	508	511	509	497	503	498	501	495	492	476	475	476	459	440	416	385	
209	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
210	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
211	2	476	474	468	470	468	451	453	437	407	325	---	---	---	---	---	---	---	---	---	---	
212	2	456	456	461	462	457	461	452	453	446	428	413	410	418	387	385	386	388	364	349	---	
213	2	417	412	401	409	350	369	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
214	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
215	2	457	469	466	473	473	469	465	462	467	465	456	441	403	362	328	309	371	394	396	387	
216	2	466	474	469	471	476	465	464	464	460	462	464	454	455	467	475	497	525	564	597	595	
217	2	519	524	520	520	522	520	506	520	514	522	517	510	512	512	506	508	492	490	470	460	
218	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
219	2	457	465	471	471	473	469	462	462	455	458	459	455	450	450	442	444	436	435	426	421	
220	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
221	2	477	472	471	477	472	468	473	478	473	464	466	456	449	442	435	435	438	435	429	---	
222	2	476	472	466	476	472	470	468	457	415	307	---	---	---	---	---	---	---	---	---	---	
223	2	450	451	441	458	453	446	438	431	434	432	436	433	430	426	425	423	415	417	409	399	
224	2	464	468	464	473	476	473	473	476	475	472	465	445	355	315	---	---	---	---	---	---	
225	2	426	402	361	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
226	2	261	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
227	2	263	253	279	275	286	288	289	297	302	277	291	292	295	286	283	287	289	301	300	297	
228	2	271	271	272	275	276	272	270	272	270	257	252	234	209	171	---	---	---	---	---	---	
229	2	306	313	322	328	323	326	321	327	324	325	322	319	322	327	338	337	336	344	318	330	
230	2	258	249	258	265	265	272	271	271	263	243	238	199	217	234	248	210	---	---	---	---	
231	2	304	307	310	314	315	317	311	312	304	314	310	276	---	---	---	---	---	---	---	---	
232	2	239	245	240	245	249	251	259	255	253	257	263	265	273	271	276	277	277	281	274	277	
233	2	328	329	324	323	313	326	319	316	324	319	316	326	326	330	332	333	336	338	331	313	
234	2	290	290	289	292	293	293	299	304	309	307	310	307	316	324	316	333	331	327	328	334	
235	2	264	270	266	273	270	280	276	276	278	275	284	286	289	293	288	291	282	284	284	279	
236	2	309	312	312	317	326	326	326	331	332	331	344	337	336	338	340	332	332	327	328	326	
237	2	282	279	284	278	287	292	290	295	297	295	299	298	308	306	315	313	315	308	310	319	
238	2	298	304	301	313	317	321	323	314	320	318	321	322	334	333	332	329	328	330	334	325	
239	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
240	2	282	296	295	302	306	309	315	307	303	310	320	319	319	322	325	325	324	327	322	325	

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T M R A L G R N O S O U P X		TEST WEEK																101	103	104
		57	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
241	2	283	280	280	273	285	285	275	283	283	284	291	294	296	297	299	301	305	304	299
242	2	299	265	241	220	182	164	---	---	---	---	---	---	---	---	---	---	---	---	---
243	2	299	265	241	220	182	164	---	---	---	---	---	---	---	---	---	---	---	---	---
244	2	299	265	241	220	182	164	---	---	---	---	---	---	---	---	---	---	---	---	---
245	2	266	271	279	281	280	293	293	290	299	294	300	307	306	307	314	317	315	316	303
246	2	266	271	279	281	280	293	293	290	299	294	300	307	306	307	314	317	315	316	303
247	2	282	291	299	302	302	302	301	301	302	298	299	310	315	312	306	318	314	315	300
248	2	279	290	288	292	297	298	291	289	298	299	300	301	303	306	314	305	277	---	---
249	2	274	235	236	236	248	254	243	245	259	262	260	260	272	277	274	282	292	300	308
250	2	295	305	305	302	302	303	299	306	297	298	296	294	285	279	256	221	163	---	---
251	2	289	301	299	301	304	312	310	310	308	314	315	329	318	328	329	321	307	307	313
252	2	253	255	257	250	255	260	254	260	262	275	269	278	286	288	291	292	297	299	300
253	2	325	335	337	343	346	346	349	350	354	350	352	361	357	363	360	373	370	374	353
254	2	302	307	315	324	325	326	322	326	325	330	335	336	331	337	330	334	345	338	335
255	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
256	2	296	302	303	310	314	313	321	320	313	317	326	316	330	320	314	303	318	330	318
257	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
258	2	285	290	282	288	292	298	295	310	296	290	296	270	---	---	---	---	---	---	---
259	2	310	319	313	316	320	322	334	341	338	318	303	294	291	297	296	291	287	291	289
260	2	256	264	266	265	265	268	264	270	269	271	275	284	287	286	286	285	293	297	293
261	2	284	293	291	283	294	295	292	296	297	302	303	309	318	320	319	320	325	326	315
262	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
263	2	261	250	263	271	272	274	280	272	277	278	281	282	285	288	286	288	286	286	282
264	2	280	280	285	289	220	---	---	---	---	---	---	---	---	---	---	---	---	---	---
265	2	273	281	284	294	298	300	307	314	302	306	298	304	314	316	311	313	312	310	308
266	2	275	248	248	246	256	262	260	269	270	271	266	271	278	284	284	284	275	283	284
267	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
268	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
269	2	314	327	327	329	333	327	328	329	336	343	344	338	346	352	348	347	337	342	334
270	2	308	316	322	326	330	324	328	339	332	332	336	331	328	330	326	252	---	---	---
271	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
272	2	298	304	311	309	319	319	314	313	319	320	324	325	333	340	336	336	334	339	337
273	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
274	2	294	313	305	305	313	309	311	316	310	309	310	306	312	318	324	326	328	324	320
275	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
276	2	290	302	297	302	312	314	309	304	303	302	302	308	312	324	315	317	299	309	307
277	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
278	2	267	274	277	284	284	285	291	288	292	292	299	301	305	308	312	314	312	316	350
279	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
280	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T E M A L G R N O U P		TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
281	2 F	297	285	310	318	323	324	326	301	314	301	---	---	---	---	---	---	---	---	---	---
282	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
283	2 F	272	277	270	280	283	280	290	295	288	288	294	296	302	310	312	305	308	317	312	312
284	2 F	288	284	290	305	306	306	306	307	314	309	310	315	309	316	323	320	317	320	309	309
285	2 F	244	257	246	262	270	264	269	271	270	265	264	260	268	275	272	287	282	288	271	277
286	2 F	307	309	311	313	316	316	322	321	320	325	320	302	297	286	261	181	---	---	---	---
287	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
288	2 F	272	276	280	283	283	285	287	282	284	285	289	286	287	294	291	287	285	287	286	281
289	2 F	313	316	312	323	321	328	325	322	324	311	285	242	198	163	123	---	---	---	---	---
290	2 F	258	263	266	272	275	281	278	281	280	288	292	288	293	297	296	306	302	302	304	300
291	2 F	266	272	274	278	280	284	284	285	290	298	295	297	293	297	291	286	287	279	261	274
292	2 F	288	284	294	302	304	304	306	304	305	313	311	324	317	324	338	352	340	330	334	338
293	2 F	273	275	285	287	292	287	296	289	298	299	304	301	304	312	298	294	306	287	288	---
294	2 F	262	266	262	268	269	268	271	270	270	278	280	278	288	288	281	286	283	273	---	---
295	2 F	264	277	280	280	293	295	298	299	300	301	312	310	317	313	314	319	325	328	326	329
296	2 F	271	284	291	300	306	314	309	317	317	321	322	327	324	326	327	327	321	317	309	300
297	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
298	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
299	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
300	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301	3 M	476	437	471	454	456	468	462	457	452	452	456	444	451	448	443	443	444	442	431	435
302	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
303	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
304	3 M	444	443	444	437	433	424	427	425	412	390	401	367	386	387	388	386	371	345	289	---
305	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
306	3 M	464	464	463	464	459	455	451	455	455	456	458	452	449	448	417	436	429	410	388	369
307	3 M	452	447	442	439	437	441	431	432	428	425	425	422	422	426	428	428	420	422	424	416
308	3 M	479	479	473	471	473	471	465	468	459	456	458	452	453	453	446	450	437	444	439	---
309	3 M	476	476	482	477	478	475	470	464	476	436	367	---	---	---	---	---	---	---	---	---
310	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
311	3 M	435	432	439	438	428	427	425	429	431	431	428	426	428	425	422	405	---	---	---	---
312	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
313	3 M	453	460	462	457	464	456	460	458	454	451	456	450	450	449	462	451	454	453	442	437
314	3 M	415	419	418	415	408	405	403	407	412	417	407	407	413	411	398	393	390	390	---	---
315	3 M	506	514	502	502	501	509	506	514	510	512	518	520	521	510	518	514	504	484	472	449
316	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
317	3 M	509	516	513	516	510	505	498	492	492	482	419	---	---	---	---	---	---	---	---	---
318	3 M	482	477	472	481	478	479	465	467	474	471	477	468	462	459	454	450	450	436	427	421
319	3 M	488	482	479	477	476	472	471	466	460	446	448	445	444	440	433	436	433	420	422	413
320	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L I D E N T I F I C A T I O N	S E X	TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
321	M	503	501	508	508	508	507	504	497	496	496	503	500	492	484	480	482	477	478	467	458
322	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
323	M	479	472	470	455	459	461	464	461	466	470	466	458	470	445	442	446	429	387	268	---
324	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
325	M	458	452	452	454	456	453	448	447	443	447	422	368	316	---	---	---	---	---	---	---
326	M	463	472	465	464	466	460	448	444	435	442	442	433	421	395	359	321	288	232	---	---
327	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
328	M	463	457	460	459	462	453	452	456	451	459	450	450	449	449	444	440	429	418	411	403
329	M	473	480	472	471	475	470	471	470	474	477	481	476	474	479	478	473	465	455	355	---
330	M	486	468	466	464	468	458	440	450	454	450	460	460	454	456	443	---	---	---	---	---
331	M	437	439	441	443	445	438	439	436	434	405	402	404	397	---	---	---	---	---	---	---
332	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
333	M	504	510	500	501	494	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
334	M	482	473	471	473	467	459	453	438	308	---	---	---	---	---	---	---	---	---	---	---
335	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
336	M	472	466	461	470	459	456	455	445	442	435	435	426	436	432	429	427	418	420	414	410
337	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
338	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
339	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
340	M	433	432	428	434	429	406	418	424	421	422	425	425	426	424	428	424	419	422	414	411
341	M	476	477	478	479	472	473	478	478	486	472	480	476	468	466	461	459	441	441	438	428
342	M	505	501	501	502	501	494	501	485	488	484	486	479	484	481	475	469	458	456	452	447
343	M	460	460	468	476	474	471	466	463	462	460	---	---	---	---	---	---	---	---	---	---
344	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
345	M	474	478	481	496	450	383	352	350	338	333	300	295	296	302	300	286	287	274	269	256
346	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
347	M	478	473	467	474	472	470	457	458	454	458	451	450	444	444	440	432	425	423	424	406
348	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
349	M	464	470	470	471	472	473	472	467	464	456	459	450	446	441	449	462	---	---	---	---
350	M	458	457	459	464	462	464	460	465	464	463	465	457	443	---	---	---	---	---	---	---
351	M	460	452	444	422	385	325	280	---	---	---	---	---	---	---	---	---	---	---	---	---
352	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
353	M	485	491	485	494	494	497	487	---	---	---	---	---	---	---	---	---	---	---	---	---
354	M	486	488	489	492	486	486	486	478	474	473	473	464	462	469	461	457	450	444	439	433
355	M	450	449	437	449	442	443	438	436	447	442	439	437	435	439	439	435	438	440	433	425
356	M	455	454	451	456	457	447	450	440	443	439	438	434	434	433	429	432	421	420	397	392
357	M	416	412	409	411	414	409	412	407	411	415	410	405	405	403	402	401	400	400	390	384
358	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
359	M	492	500	500	508	506	501	502	497	497	496	493	489	490	492	493	489	486	478	475	465
360	M	454	456	453	453	453	446	444	448	448	438	441	443	437	441	436	440	429	430	426	424

--- = NO AVAILABLE DATA

Table VI.2 (continued)

[illegible]

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L I D N O	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
401	3	262	266	267	270	284	290	292	297	299	303	301	304	311	315	312	316	319	318	314
402	3	314	320	321	321	330	333	332	335	331	344	348	351	351	351	348	351	340	344	339
403	3	268	270	277	274	281	281	285	287	288	293	295	297	305	304	310	314	311	314	308
404	3	297	299	300	297	301	306	302	310	310	307	310	308	301	295	268	204	--	--	--
405	3	292	302	299	304	310	316	316	312	319	323	329	338	335	335	346	344	338	339	334
406	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
407	3	305	312	314	318	319	322	324	325	328	328	335	338	344	339	341	346	345	343	340
408	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
409	3	307	319	315	317	326	330	331	334	338	341	341	340	347	349	345	355	358	354	340
410	3	258	264	271	274	277	279	278	284	293	291	293	294	294	298	294	301	295	288	284
411	3	241	248	250	250	255	254	248	248	250	235	243	245	240	228	216	184	--	--	--
412	3	266	245	216	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
413	3	281	284	283	288	295	300	301	298	303	307	304	311	320	319	322	323	321	325	312
414	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
415	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
416	3	303	310	311	308	316	325	328	327	327	334	336	337	334	332	328	331	332	334	328
417	3	285	288	292	290	294	298	306	304	300	301	301	290	295	188	--	--	--	--	--
418	3	287	286	285	287	292	301	300	302	303	300	301	314	312	315	310	320	315	317	324
419	3	285	289	293	299	304	316	312	312	312	317	320	325	328	326	336	336	337	344	338
420	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
421	3	265	265	262	268	264	264	270	281	285	282	298	287	296	291	298	306	310	305	303
422	3	266	274	280	284	281	281	290	283	288	288	294	289	303	298	301	301	300	305	303
423	3	296	299	302	300	305	300	309	313	313	320	326	326	331	329	335	339	339	342	342
424	3	329	332	340	340	346	354	357	356	358	352	358	351	356	364	367	376	379	380	380
425	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
426	3	303	305	311	314	316	320	321	335	330	332	334	342	339	344	349	348	355	358	355
427	3	265	269	264	276	273	274	279	279	280	278	280	283	287	287	289	281	286	292	285
428	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
429	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
430	3	261	262	264	259	261	270	256	265	271	271	274	276	272	272	275	284	277	283	281
431	3	290	294	293	298	296	297	299	295	296	305	302	304	314	312	318	324	317	318	321
432	3	294	300	294	297	295	303	303	310	305	313	311	317	323	327	329	334	328	333	320
433	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
434	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
435	3	302	309	310	315	310	302	316	302	314	290	300	304	310	309	--	--	--	--	--
436	3	259	269	264	266	267	286	280	287	295	297	298	295	291	301	301	297	304	302	298
437	3	292	296	292	289	295	295	294	297	286	280	289	299	292	288	278	270	258	205	--
438	3	284	287	284	292	292	299	302	303	304	304	242	--	--	--	--	--	--	--	--
439	3	277	281	279	278	281	289	289	289	296	304	313	330	332	349	353	376	396	449	462
440	3	261	268	267	262	266	271	272	276	282	282	287	289	292	293	286	290	283	285	279

--- NO AVAILABLE DATA



Table VI.2 (continued)  
 TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N T M A T N C	T R T M T M T C	TEST WEEK																		101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99				
191	1	469	474	470	478	477	474	465	462	472	492	410	453									
192	1	517	519	512	510	505	504	496	491	485	477	473	469	435	328							
193	1																					
194	1	436	408	416	424	418	411	416	411	411	408	409	404	403	404	394	399	392	393	390	377	
195	1																					
196	1	466	465	461	458	460	456	450	445	446	441	446	442	447	440	446	442	437	429	414	406	
197	1	468	468	462	468	468	467	464	469	464	466	462	460	389	382	377	374	375	380	372	371	
198	1	432	417	413	413	412	409	419	426	423	430	430	431	436	429	431	436	441	459	471	476	
199	1																					
200	1	467	412	415	421	415	409	409	412	403	404	406	396	400	395	402	394	349				
201	1																					
202	1																					
203	1	462	409	397	403	400	398	397	392	395	397	394	391	386	382	380	384	377	374	369	362	
204	1	473	475	480	482	483	482	480	468	474	480	476	479	469	472	467	457	444	447	286	327	
205	1	432	436	432	432	422	429	426	435	419	416	412	408	378	316	284						
206	1																					
207	1																					
208	1	413	444	443	444	446	441	434	428	425	428	423	413	418	413	405	410	400	396	386	383	
209	1	495	491	485	479	478	484	473	469	473	472	472	474	473	476	480	482	490	498	509	504	
210	1																					
211	1	447	452	453	456	452	454	448	446	442	442	440	437	429	425	421	402	379	350	321		
212	1	163	451	451	451	454	444	441	450	453	447	446	452	444	448	442	434	431	421	414	404	
213	1	465	463	454	458	461	457	455	454	445	451	446	447	437	434	429	414	376				
214	1	450	447	446	439	444	438	443	441	442	442	436	431	427	428	433	430	422	419	410	395	
215	1	428	434	428	432	426	419	415	415	415	413	408	407	398	402	406	397	338				
216	1	415	410	409	410	406	404	406	399	398	395	396	386	326								
217	1	405	408	406	398	398	394	394	383	383	383	378	379	376	376	377	368	365	362	362	356	
218	1																					
219	1																					
220	1	420	415	416	421	421	419	413	406	401	402	401	395	387	368	372	373	371	368	381	365	
221	1	427	424	402	400	400	399															
222	1	472	470	461	459	457	451	448	446	445	438	432	430	427	431	422	412	415	410	395	385	
223	1																					
224	1	429	435	427	434	434	435	427	422	427	421	420	406	411	407	398	391	377	379	297	263	
225	1																					
226	1																					
227	1																					
228	1																					
229	1	457	463	459	464	467	451	447	453	460	459	465	458	456	446	444	438	429	417	413	403	
230	1	461	452	454	456	460	454	439	446	452	448	450	445	442	428	429	421	411	400	328		
231	1	472	484	481	482	487	488	483	484	484	486	478	474	468	461	462	457	446	433	429	421	

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L G R O U P	S E X	TEST WEEK																		101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99				
521	M	337	404	400	395	398	389	377	378	377	372	371	366	364	367	360	366	359	358	353	347	
522	M	311	405	400	402	403	392	398	398	403	399	404	402	390	336	---	---	---	---	---	---	
523	M	421	416	405	411	409	403	387	393	396	394	397	402	392	398	399	389	392	384	368	362	
524	M	424	422	418	420	420	416	408	408	408	408	403	405	401	400	400	398	394	391	385	---	
525	M	335	433	427	430	429	421	405	400	392	396	398	398	393	379	377	366	355	351	279	---	
526	F	180	175	176	182	183	186	188	193	196	196	195	197	183	131	---	---	---	---	---	---	
527	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
528	F	245	252	259	251	253	260	253	256	257	262	261	267	264	266	261	261	258	268	268	266	
529	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
530	F	289	296	307	309	312	305	320	322	327	318	322	327	328	337	329	328	320	275	220	200	
531	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
532	F	268	278	277	276	279	282	279	288	286	294	288	295	294	297	300	301	291	287	279	271	
533	F	240	248	246	241	244	252	246	249	253	258	266	266	267	272	276	279	277	281	280	269	
534	F	259	262	266	261	267	273	269	274	285	290	293	288	300	304	295	---	---	---	---	---	
535	F	304	309	313	314	318	312	316	322	323	317	323	323	327	326	328	330	329	325	327	327	
536	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
537	F	259	270	279	274	277	283	291	288	290	290	292	299	306	303	302	309	304	306	306	305	
538	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
539	F	306	313	307	311	310	321	319	320	322	328	334	330	332	340	334	344	337	343	327	293	
540	F	252	259	252	254	266	272	268	271	275	277	287	282	284	291	297	297	299	302	299	290	
541	F	261	266	277	277	283	282	285	287	288	289	298	302	290	292	290	293	290	298	293	294	
542	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
543	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
544	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
545	F	286	294	302	305	305	311	314	316	316	312	313	311	309	297	245	194	206	179	179	187	
546	F	229	230	228	231	236	236	238	235	229	218	222	214	233	231	229	228	233	229	236	227	
547	F	262	265	264	262	264	267	266	271	278	271	280	273	288	278	284	289	292	289	291	284	
548	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
549	F	314	321	315	317	326	325	329	327	331	324	331	332	330	331	319	315	292	297	280	261	
550	F	295	301	297	298	297	306	293	297	301	299	302	311	312	316	315	313	329	329	329	---	
551	F	237	239	252	250	243	256	257	259	253	251	230	211	161	---	---	---	---	---	---	---	
552	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
553	F	257	256	259	266	271	278	278	281	280	284	280	287	293	296	302	301	300	304	300	299	
554	F	244	246	248	260	263	267	273	273	277	277	285	290	288	289	292	297	292	291	287	288	
555	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
556	F	257	262	270	274	282	282	279	283	283	289	294	298	291	298	300	306	304	300	298	303	
557	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
558	F	248	254	245	250	261	260	269	268	269	270	276	271	275	275	286	288	280	287	286	284	
559	F	256	261	263	270	267	270	274	275	277	279	282	279	280	285	288	287	294	297	296	291	
560	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T I M A I R N O O U F	T R G R O U P	TEST WEEK																		103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101		
561	4 F	242	245	251	256	257	258	259	262	263	263	269	264	273	273	278	285	283	288	289	282
562	4 F	264	269	271	272	277	279	274	282	283	281	285	285	293	294	297	300	298	303	297	299
563	4 F	270	273	273	281	283	278	283	281	285	285	284	293	294	294	298	307	302	304	305	304
565	4 F	255	259	255	263	269	264	270	273	268	265	274	277	279	272	282	291	298	296	292	292
566	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
567	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
568	4 F	276	283	288	289	301	302	308	310	324	327	344	348	360	367	378	398	383	386	366	347
569	4 F	216	223	226	233	236	227	222	231	234	234	237	243	243	248	246	247	247	251	246	245
570	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571	4 F	269	278	277	277	282	288	293	291	298	298	302	309	312	309	319	320	324	329	331	328
572	4 F	284	284	282	291	294	295	295	303	304	302	301	305	306	303	312	312	313	313	304	298
573	4 F	266	271	270	270	269	280	286	282	282	278	291	288	287	295	298	309	296	302	302	298
574	4 F	236	233	228	225	224	224	227	235	238	233	239	245	250	255	252	250	227	236	228	228
575	4 F	246	251	243	248	250	252	257	258	251	257	257	266	264	276	272	267	275	278	274	275
576	4 F	267	276	276	280	277	277	284	280	274	272	278	277	283	283	287	294	305	327	361	229
577	4 F	278	284	279	282	288	283	289	288	294	296	302	298	294	302	302	304	306	311	303	301
578	4 F	240	240	242	243	250	254	246	252	258	260	256	263	271	276	271	276	278	280	279	268
579	4 F	269	272	267	269	265	272	264	265	266	252	242	246	244	233	223	217	229	219	173	168
580	4 F	266	274	280	282	279	261	267	268	268	263	256	254	244	246	247	245	251	---	---	---
581	4 F	256	259	260	270	267	276	262	273	277	271	274	280	285	288	288	296	306	330	344	331
582	4 F	278	284	284	281	285	283	287	286	281	278	278	274	279	276	270	264	212	158	---	---
583	4 F	274	278	278	280	290	289	290	269	---	---	---	---	---	---	---	---	---	---	---	---
584	4 F	233	239	237	233	240	244	244	241	242	238	240	239	237	240	236	247	231	241	240	234
585	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
586	4 F	232	227	229	234	242	248	227	229	236	244	248	248	247	252	253	256	251	253	250	---
587	4 F	289	299	301	306	311	312	309	307	307	317	312	326	328	320	323	319	323	320	327	316
588	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589	4 F	263	262	263	269	272	277	279	281	284	280	284	290	294	300	301	306	314	310	309	312
590	4 F	271	280	271	275	285	273	278	284	284	285	293	294	301	304	307	310	300	308	310	304
591	4 F	252	260	257	263	266	268	270	274	274	279	281	281	285	286	293	298	294	291	293	287
592	4 F	263	263	273	277	283	274	279	285	282	289	289	288	290	299	297	302	304	298	291	292
593	4 F	248	262	258	263	269	258	258	270	255	261	264	274	280	289	294	291	292	293	285	---
594	4 F	254	263	256	266	266	262	263	265	260	263	268	271	274	279	283	284	285	286	281	296
595	4 F	255	274	272	279	284	280	284	294	294	289	299	300	298	305	313	316	327	343	---	---
596	4 F	290	294	299	300	305	298	303	304	309	311	323	322	324	329	334	332	330	330	333	321
597	4 F	227	235	236	240	240	244	251	254	254	249	260	257	269	265	269	268	272	274	263	267
598	4 F	256	267	264	270	270	271	273	278	271	280	275	279	283	286	285	284	284	285	287	283
599	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
600	4 F	292	296	294	304	304	307	308	312	308	310	311	314	311	309	319	327	324	320	323	320

--- NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I T R O L O S U F Y	S E X	TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
601	S	419	440	432	425	423	423	418	414	414	409	409	401	398	393	390	387	380	365	354	328
602	S	408	400	395	393	397	397	393	379	389	369	368	362	376	373	371	365	367	371	364	360
603	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604	S	365	372	367	367	360	351	353	355	357	346	345	341	340	340	333	331	329	339	327	318
605	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
608	S	418	415	413	401	397	397	394	385	392	385	387	375	384	381	372	364	355	348	324	317
609	S	408	407	403	396	389	385	381	387	387	381	378	376	379	374	368	365	361	359	360	347
610	S	359	362	357	352	351	342	344	346	342	342	342	344	343	340	332	336	334	334	325	335
611	S	429	423	414	406	408	402	399	391	391	392	387	389	387	381	380	374	371	371	353	357
612	S	408	403	401	398	395	386	383	396	380	392	392	392	380	380	367	366	371	360	348	349
613	S	394	399	398	391	383	386	370	383	382	371	369	358	359	356	358	364	319	332	321	290
614	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
615	S	405	403	406	401	402	396	390	390	383	382	375	345	372	369	358	359	357	319	293	296
616	S	412	410	404	398	391	390	381	385	380	377	374	370	366	364	342	343	330	318	252	226
617	S	395	394	383	369	371	370	374	373	374	366	373	357	365	368	367	359	346	351	354	346
618	S	386	390	383	381	384	377	368	371	380	367	370	364	361	363	358	352	348	330	301	247
619	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
620	S	412	404	403	397	396	396	394	398	394	391	387	382	378	375	369	364	364	360	356	338
621	S	374	379	380	380	378	375	369	365	370	359	355	349	347	348	345	334	329	329	314	291
622	S	374	375	368	371	369	372	355	358	360	351	350	350	349	348	340	344	345	337	334	290
623	S	412	413	400	389	381	374	375	373	372	370	377	370	374	371	370	371	356	358	347	329
624	S	396	385	380	381	379	378	375	377	372	368	366	362	366	355	353	351	349	339	339	335
625	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
626	S	399	390	386	387	382	361	376	373	372	370	360	362	364	357	342	336	331	303	230	221
627	S	392	398	392	389	386	382	381	383	376	374	381	387	392	383	353	226	---	---	---	---
628	S	301	285	248	208	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
629	S	401	398	397	388	387	386	377	380	385	377	378	380	387	373	371	352	348	324	332	331
630	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
631	S	398	401	389	392	384	382	382	373	374	360	355	348	346	318	274	235	226	---	---	---
632	S	379	380	371	365	362	352	354	354	352	346	343	341	347	335	344	342	348	352	352	---
633	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
634	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
635	S	371	366	357	355	353	353	349	345	342	343	344	343	349	341	334	326	320	320	311	309
636	S	344	346	341	338	342	344	334	333	324	322	302	265	224	---	---	---	---	---	---	---
637	S	384	382	380	374	382	382	376	385	379	375	376	374	375	371	372	376	368	361	356	358
638	S	377	383	376	373	372	365	367	365	366	355	352	359	359	356	351	353	355	349	335	336
639	S	401	398	394	394	398	391	386	379	381	376	378	374	367	371	341	355	347	340	340	339
640	S	381	387	383	377	381	370	367	374	372	370	364	369	364	357	350	345	309	270	243	231

--- - NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L I D	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
611	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
612	5 M	395	409	407	400	403	408	403	395	382	398	394	389	388	380	376	369	376	340	348
613	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
614	5 M	389	391	383	386	385	382	374	376	380	373	368	357	370	373	346	348	343	335	319
615	5 M	398	397	389	386	391	381	374	376	375	368	368	357	362	355	348	345	330	322	300
616	5 M	387	386	378	381	375	373	364	364	364	362	362	359	357	356	354	350	346	342	337
617	5 M	365	365	364	365	363	361	360	357	364	359	358	349	346	344	350	343	355	346	340
618	5 M	422	418	411	408	412	408	398	398	405	395	395	390	385	378	375	378	368	359	344
619	5 M	417	410	402	391	392	381	381	371	360	323	260	---	---	---	---	---	---	---	---
620	5 M	345	349	347	349	349	355	353	356	360	354	352	336	326	297	188	---	---	---	---
621	5 M	412	412	402	403	396	396	392	399	402	388	389	385	381	375	364	367	360	352	349
622	5 M	383	381	376	378	378	373	369	371	370	373	369	366	365	359	358	355	351	359	347
623	5 M	393	393	383	381	387	376	370	370	369	368	366	365	368	361	359	355	355	348	278
624	5 M	377	376	369	368	369	367	365	362	366	361	355	358	356	350	349	310	247	---	---
625	5 M	411	412	405	405	398	399	389	381	383	364	369	368	358	355	341	337	330	289	---
626	5 M	320	321	315	310	314	308	309	312	307	286	296	300	291	291	290	255	275	265	211
627	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
628	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
629	5 M	396	390	388	388	375	374	378	371	365	358	360	357	349	351	347	344	342	340	334
630	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
631	5 M	384	385	380	378	379	378	368	379	371	371	367	362	364	360	346	336	342	343	319
632	5 M	423	423	421	422	417	415	411	409	406	403	391	388	384	378	371	367	358	350	319
633	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
634	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
635	5 M	377	377	371	369	372	371	363	366	362	354	354	347	353	332	336	330	328	320	298
636	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
637	5 M	427	434	414	418	422	424	408	407	393	387	383	385	374	369	374	366	361	350	320
638	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
639	5 M	373	373	376	365	368	367	362	363	360	359	352	354	360	349	348	351	341	341	329
640	5 M	394	398	391	389	385	372	370	366	365	356	355	352	338	335	327	331	---	---	---
641	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
642	5 M	368	364	359	357	353	350	353	357	348	348	346	350	337	332	320	---	---	---	---
643	5 M	384	381	381	375	372	369	370	370	368	369	369	368	368	365	363	361	363	352	358
644	5 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
645	5 M	435	438	424	420	419	408	407	403	410	401	400	400	398	388	385	382	364	361	---
646	5 F	227	234	234	239	244	245	241	249	252	254	253	261	263	262	264	273	268	276	269
647	5 F	210	223	224	221	215	217	221	226	228	225	227	230	228	232	237	234	233	232	236
648	5 F	218	235	234	238	229	236	241	238	240	239	232	216	215	220	197	---	---	---	---
649	5 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
650	5 F	225	227	228	232	233	233	239	240	245	242	250	258	262	264	266	276	288	291	313
651	5 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.2 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TETRAHYDROTHIOPHENE (THI) IN THE F344 RAT  
 INDIVIDUAL BODY WEIGHT MEASUREMENTS (grams)

A N I M A L R O U P	S E X	TEST WEEK																97	99	101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104	
681	F	222	223	226	222	227	226	226	228	231	233	237	232	231	210	230	236	235	239	231	227	
682	F	206	208	209	207	213	212	206	217	213	216	218	222	220	223	222	224	227	227	227	223	
683	F	196	201	201	201	202	205	202	215	214	224	225	227	231	230	229	232	231	235	235	219	
684	F	203	207	199	203	201	201	209	207	219	221	222	229	229	232	231	231	239	245	255	261	
685	F	222	228	227	227	235	227	233	239	249	248	238	239	232	227	234	220	222	---	---	---	
686	F	216	220	223	222	228	226	223	232	239	238	236	237	244	249	245	246	245	248	244	---	
687	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
688	F	229	230	233	232	237	239	244	248	250	250	248	250	252	256	251	252	250	260	255	255	
689	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
690	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
691	F	221	223	223	219	219	228	225	218	235	234	236	242	246	241	241	245	241	248	244	237	
692	F	250	248	247	251	260	254	254	257	262	258	256	253	264	266	273	265	222	239	252	237	
693	F	252	259	256	247	246	237	224	224	---	---	---	---	---	---	---	---	---	---	---	---	
694	F	227	229	231	227	230	228	238	239	242	237	242	241	243	239	239	238	236	240	237	238	
695	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
696	F	209	211	219	212	217	221	222	226	213	206	222	212	212	208	218	224	216	229	229	218	
697	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
698	F	233	241	235	236	240	243	244	249	254	256	264	265	267	277	276	279	274	278	278	280	
699	F	242	247	249	251	262	271	283	287	304	310	313	315	301	339	361	361	382	391	389	398	
700	F	223	227	221	226	227	230	230	234	233	235	238	238	243	247	244	246	239	246	244	247	
701	F	220	218	209	218	217	219	216	227	227	224	222	220	222	228	225	224	222	222	226	228	
702	F	210	212	215	207	214	213	220	227	223	223	220	220	223	230	228	231	228	227	232	234	
703	F	229	236	235	235	239	242	236	244	245	248	251	258	263	257	263	257	261	260	254	254	
704	F	192	194	196	195	197	195	199	195	200	204	206	214	215	215	212	214	216	220	218	219	
705	F	208	207	205	210	210	206	211	213	215	218	221	220	226	231	227	231	226	229	232	229	
706	F	194	202	196	193	196	198	203	204	209	200	212	195	190	195	193	190	170	170	186	185	
707	F	204	210	203	207	209	210	205	207	211	195	214	206	213	217	215	216	214	206	186	185	
708	F	218	228	224	224	227	232	226	230	229	227	235	234	230	241	239	239	233	226	---	---	
709	F	216	223	223	227	229	222	232	232	234	233	235	238	236	238	241	247	243	243	240	243	
710	F	222	228	224	224	229	230	232	242	242	248	250	249	247	248	247	251	242	256	256	245	
711	F	228	238	232	236	234	230	237	229	236	236	238	241	234	242	244	240	228	232	234	227	
712	F	196	203	204	202	204	212	210	208	206	208	214	217	221	220	204	207	195	191	176	201	
713	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
714	F	213	220	220	224	220	223	230	231	235	237	243	244	247	249	244	243	244	245	246	242	
715	F	236	241	244	244	243	246	247	240	247	246	251	248	247	248	248	250	240	230	228	223	
716	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
717	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
718	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
719	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
720	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

--- = NO AVAILABLE DATA

--- = NO AVAILABLE DATA



TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T R A L R O N O P X	S F X	TEST WEEK																																											
		-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25																							
41	M	13	7	15	0	15	3	16	4	16	2	16	3	16	8	16	8	14	8	15	8	16	3	16	0	15	5	15	4	15	4	15	6	15	2	14	4	14	3	15	7	14	4		
42	M	13	7	15	0	15	3	16	4	16	2	16	3	16	8	16	8	14	8	15	8	16	3	16	0	15	5	15	4	15	4	15	6	15	2	14	4	14	3	15	7	14	4		
43	M	14	0	15	1	16	3	17	6	17	6	17	4	17	6	11	2	---	19	7	16	8	18	0	17	7	17	0	16	6	15	18	7	14	8	16	0	16	6	16	8	16			
44	M	14	0	15	1	16	3	17	6	17	6	17	4	17	6	11	2	---	19	7	16	8	18	0	17	7	17	0	16	6	15	18	7	14	8	16	0	16	6	16	8	16			
45	M	14	0	15	1	16	3	17	6	17	6	17	4	17	6	11	2	---	19	7	16	8	18	0	17	7	17	0	16	6	15	18	7	14	8	16	0	16	6	16	8	16			
46	M	13	2	14	1	14	8	15	2	15	0	14	5	15	1	15	2	13	9	15	1	15	0	15	8	15	1	15	1	14	9	14	6	15	13	14	9	14	8	15	4	15	0		
47	M	13	2	14	1	14	8	15	2	15	0	14	5	15	1	15	2	13	9	15	1	15	0	15	8	15	1	15	1	14	9	14	6	15	13	14	9	14	8	15	4	15	0		
48	M	13	2	14	1	14	8	15	2	15	0	14	5	15	1	15	2	13	9	15	1	15	0	15	8	15	1	15	1	14	9	14	6	15	13	14	9	14	8	15	4	15	0		
49	M	14	0	14	9	15	3	16	2	16	3	16	3	16	3	15	8	16	3	15	8	16	3	16	3	16	0	15	7	16	2	15	16	16	16	16	16	16	16	16	16	16	16	16	
50	M	14	0	14	9	15	3	16	2	16	3	16	3	16	3	15	8	16	3	15	8	16	3	16	3	16	0	15	7	16	2	15	16	16	16	16	16	16	16	16	16	16	16		
51	M	14	0	14	9	15	3	16	2	16	3	16	3	16	3	15	8	16	3	15	8	16	3	16	3	16	0	15	7	16	2	15	16	16	16	16	16	16	16	16	16	16	16		
52	M	11	0	15	6	15	5	16	3	16	3	16	5	16	9	16	7	16	0	17	7	17	1	17	1	17	1	16	6	16	2	16	1	15	3	16	4	15	5	16	0	18	7	16	1
53	M	11	0	15	6	15	5	16	3	16	3	16	5	16	9	16	7	16	0	17	7	17	1	17	1	17	1	16	6	16	2	16	1	15	3	16	4	15	5	16	0	18	7	16	1
54	M	11	0	15</																																									

----- = NO AVAILABLE DATA









10 2250

42-84- 20

AND AVAILABLE DATA

Table VI.3 (continued)

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

[illegible]

- NO AVAILABLE DATA





















Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T M A I N G R O U P	T R E A T M E N T	TEST WEEK																									
			-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	15	17	19	21	23	25				
721	F		11	3	11	7	10	9	10	7	10	2	9	7	10	6	10	2	9	6	10	2	9	8	9	9	10
722	F		11	3	11	7	10	9	10	7	10	2	9	7	10	6	10	2	9	6	10	2	9	8	9	9	10
723	F		11	3	11	7	10	9	10	7	10	2	9	7	10	6	10	2	9	6	10	2	9	8	9	9	10
724	F		11	0	12	1	11	0	10	9	10	7	10	5	10	1	10	0	9	3	9	8	9	6	9	2	8
725	F		11	0	12	1	11	0	10	9	10	7	10	5	10	1	10	0	9	3	9	8	9	6	9	2	8
726	F		11	0	12	1	11	0	10	9	10	7	10	5	10	1	10	0	9	3	9	8	9	6	9	2	8
727	F		11	0	12	1	11	0	10	9	10	7	10	5	10	1	10	0	9	3	9	8	9	6	9	2	8
728	F		11	7	11	7	10	9	10	8	10	3	12	9	10	0	10	3	9	9	14	9	10	3	10	5	10
729	F		11	7	11	7	10	9	10	8	10	3	12	9	10	0	10	3	9	9	14	9	10	3	10	5	10
730	F		10	6	11	0	10	4	10	4	10	0	9	9	9	7	9	9	9	9	9	6	9	6	9	4	7
731	F		10	6	11	0	10	4	10	4	10	0	9	9	9	7	9	9	9	9	9	6	9	6	9	4	7
732	F		10	6	11	0	10	4	10	4	10	0	9	9	9	7	9	9	9	9	9	6	9	6	9	4	7
733	F		11	9	12	1	11	2	11	3	11	0	11	0	10	6	11	0	10	6	10	9	10	8	11	2	10
734	F		11	9	12	1	11	2	11	3	11	0	11	0	10	6	11	0	10	6	10	9	10	8	11	2	10
735	F		11	9	12	1	11	2	11	3	11	0	11	0	10	6	11	0	10	6	10	9	10	8	11	2	10
736	F		11	7	12	3	11	3	11	0	10	6	10	5	10	4	10	6	10	1	10	1	10	1	10	1	9
737	F		11	7	12	3	11	3	11	0	10	6	10	5	10	4	10	6	10	1	10	1	10	1	10	1	9
738	F		11	7	12	3	11	3	11	0	10	6	10	5	10	4	10	6	10	1	10	1	10	1	10	1	9
739	F		11	3	12	1	11	7	11	2	10	8	10	6	10	7	10	6	10	4	10	4	9	9	10	2	9
740	F		11	3	12	1	11	7	11	2	10	8	10	6	10	7	10	6	10	4	10	4	9	9	10	2	9
741	F		11	3	12	1	11	7	11	2	10	8	10	6	10	7	10	6	10	4	10	4	9	9	10	2	9
742	F		11	1	11	6	10	7	11	4	11	3	10	8	10	5	10	0	10	1	10	0	10	1	10	3	10
743	F		11	1	11	6	10	7	11	4	11	3	10	8	10	5	10	0	10	1	10	0	10	1	10	3	10
744	F		11	1	11	6	10	7	11	4	11	3	10	8	10	5	10	0	10	1	10	0	10	1	10	3	10
745	F		11	7	12	1	11	0	11	1	10	9	10	0	10	1	10	6	9	9	10	1	10	4	10	0	9
746	F		11	7	12	1	11	0	11	1	10	9	10	0	10	1	10	6	9	9	10	1	10	4	10	0	9
747	F		11	7	12	1	11	0	11	1	10	9	10	0	10	1	10	6	9	9	10	1	10	4	10	0	9
748	F		11	0	12	2	11	6	11	6	11	5	11	0	10	7	10	7	9	9	10	4	10	2	10	4	9
749	F		11	0	12	2	11	6	11	6	11	5	11	0	10	7	10	7	9	9	10	4	10	2	10	4	9
750	F		11	0	12	2	11	6	11	6	11	5	11	0	10	7	10	7	9	9	10	4	10	2	10	4	9

--- = NO AVAILABLE DATA

















Table VI.3 (continued)

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L I D	T R E A T M E N T G R O U P	TEST WEEK																		65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63
361	3 M	16.8	17.1	17.6	17.2	17.4	17.2	17.6	17.6	16.9	19.5	16.6	16.8	17.8	18.5	18.0	17.1	17.0	16.3	16.1
362	3 M	16.8	17.1	17.6	17.2	17.4	17.2	17.6	17.6	16.9	19.5	16.6	16.8	17.8	18.5	18.0	17.1	17.0	16.3	16.1
363	3 M	16.8	17.1	17.6	17.2	17.4	17.2	17.6	17.6	16.9	19.5	16.6	16.8	17.8	18.5	18.0	17.1	17.0	16.3	16.1
364	3 M	16.4	16.6	16.9	17.9	17.3	18.0	17.9	17.9	17.6	18.4	17.0	17.7	18.1	18.9	18.2	17.6	17.3	16.1	15.7
365	3 M	16.4	16.6	16.9	17.9	17.3	18.0	17.9	17.9	17.6	18.4	17.0	17.7	18.1	18.9	18.2	17.6	17.3	16.1	15.7
366	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
367	3 M	16.8	16.2	15.3	16.2	16.1	17.0	16.9	17.9	16.8	16.6	17.4	15.9	16.9	17.0	17.0	16.4	15.9	15.6	15.4
368	3 M	16.8	16.2	15.3	16.2	16.1	17.0	16.9	17.9	16.8	16.6	17.4	15.9	16.9	17.0	17.0	16.4	15.9	15.6	15.4
369	3 M	16.8	16.2	15.3	16.2	16.1	17.0	16.9	17.9	16.8	16.6	17.4	15.9	16.9	17.0	17.0	16.4	15.9	15.6	15.4
370	3 M	15.6	15.7	16.3	16.3	16.0	16.6	17.2	17.0	17.1	17.2	16.6	15.6	17.3	17.6	17.1	17.0	15.9	15.8	15.7
371	3 M	15.6	15.7	16.3	16.3	16.0	16.6	17.2	17.0	17.1	17.2	16.6	15.6	17.3	17.6	17.1	17.0	15.9	15.8	15.7
372	3 M	15.6	15.7	16.3	16.3	16.0	16.6	17.2	17.0	17.1	17.2	16.6	15.6	17.3	17.6	17.1	17.0	15.9	15.8	15.7
373	3 M	15.9	17.0	16.6	17.7	15.9	17.7	17.9	18.0	17.6	17.0	18.6	17.3	16.4	17.5	18.9	16.2	16.2	14.3	15.9
374	3 M	15.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
375	3 M	15.9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
376	3 F	8.2	9.7	10.7	11.0	10.0	15.3	12.3	10.4	10.0	11.0	10.1	10.6	9.7	10.9	9.9	12.9	10.7	12.4	12.6
377	3 F	8.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
378	3 F	8.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
379	3 F	10.6	9.4	9.8	10.2	10.5	9.7	9.7	10.3	10.2	10.8	9.9	9.1	10.2	10.2	11.1	11.2	10.8	10.7	10.9
380	3 F	10.6	9.4	9.8	10.2	10.5	9.7	9.7	10.3	10.2	10.8	9.9	9.1	10.2	10.2	11.1	11.2	10.8	10.7	10.9
381	3 F	10.6	9.4	9.8	10.2	10.5	9.7	9.7	10.3	10.2	10.8	9.9	9.1	10.2	10.2	11.1	11.2	10.8	10.7	10.9
382	3 F	10.6	10.7	11.1	10.6	11.1	11.4	10.9	12.1	10.6	11.9	11.0	12.2	11.9	13.5	13.1	12.2	12.7	13.0	13.0
383	3 F	10.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
384	3 F	10.6	10.7	11.1	10.6	11.1	11.4	10.9	12.1	10.6	11.9	11.0	12.2	11.9	13.5	13.1	12.2	12.7	13.0	13.0
385	3 F	10.1	10.4	10.8	10.7	10.7	10.8	12.5	12.9	11.6	11.8	10.1	11.6	12.2	12.4	13.6	13.0	13.5	13.4	12.9
386	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
387	3 F	10.1	10.4	10.8	10.7	10.7	10.8	12.5	12.9	11.6	11.8	10.1	11.6	12.2	12.4	13.6	13.0	13.5	13.4	12.9
388	3 F	9.5	9.4	9.9	9.7	9.4	---	10.3	11.3	10.0	10.0	8.3	11.0	11.1	11.2	11.3	11.1	11.3	11.5	11.5
389	3 F	9.5	9.4	9.9	9.7	9.4	---	10.3	11.3	10.0	10.0	8.3	11.0	11.1	11.2	11.3	11.1	11.3	11.5	11.5
390	3 F	9.5	9.4	9.9	9.7	9.4	---	10.3	11.3	10.0	10.0	8.3	11.0	11.1	11.2	11.3	11.1	11.3	11.5	11.5
391	3 F	9.4	9.3	9.7	10.5	10.1	10.1	11.1	10.0	10.2	11.9	11.4	11.3	11.3	12.0	11.9	10.6	11.2	11.4	12.0
392	3 F	9.4	9.3	9.7	10.5	10.1	10.1	11.1	10.0	10.2	11.9	11.4	11.3	11.3	12.0	11.9	10.6	11.2	11.4	12.0
393	3 F	9.4	9.3	9.7	10.5	10.1	10.1	11.1	10.0	10.2	11.9	11.4	11.3	11.3	12.0	11.9	10.6	11.2	11.4	12.0
394	3 F	9.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
395	3 F	9.2	10.4	9.6	11.3	10.9	11.1	7.2	11.6	11.3	12.5	10.6	10.7	11.1	12.7	14.0	14.6	13.1	13.6	14.3
396	3 F	9.2	10.4	9.6	11.3	10.9	11.1	7.2	11.6	11.3	12.5	10.6	10.7	11.1	---	---	---	---	---	---
397	3 F	10.5	9.2	10.4	10.3	10.9	11.1	11.1	10.9	10.2	11.0	10.5	11.2	11.0	11.6	12.8	12.1	11.8	11.9	12.0
398	3 F	10.5	9.2	10.4	10.3	10.9	11.1	11.1	10.9	10.2	11.0	10.5	11.2	11.0	11.6	12.8	12.1	11.8	11.9	12.0
399	3 F	10.5	9.2	10.4	10.3	10.9	11.1	11.1	10.9	10.2	11.0	10.5	11.2	11.0	11.6	12.8	12.1	11.8	11.9	12.0
400	3 F	9.1	9.6	9.6	10.2	10.5	10.3	10.4	10.6	10.5	10.2	13.1	10.7	9.3	11.3	12.4	9.7	10.3	10.7	12.7

--- - NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T M E R A L G R O U P	S E X	TEST WEEK																			
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
401	F	9.1	9.6	9.6	10.2	10.5	10.3	10.4	10.6	10.5	10.2	13.1	10.7	9.3	11.3	12.4	9.7	10.3	10.7	12.7	11.9
402	F	9.1	9.6	9.6	10.2	10.5	10.3	10.4	10.6	10.5	10.2	13.1	10.7	9.3	11.3	12.4	9.7	10.3	10.7	12.7	11.9
403	F	10.3	10.4	11.1	11.7	11.2	11.0	11.4	11.3	11.4	11.7	---	11.0	11.5	12.5	12.6	12.3	12.6	11.5	12.2	13.4
404	F	10.3	10.4	11.1	11.7	11.2	11.0	11.4	11.3	11.4	11.7	---	11.0	11.5	12.5	12.6	12.3	12.6	11.5	12.2	13.4
405	F	10.3	10.4	11.1	11.7	11.2	11.0	11.4	11.3	11.4	11.7	---	11.0	11.5	12.5	12.6	12.3	12.6	11.5	12.2	13.4
406	F	9.5	11.0	10.2	10.6	10.9	11.2	11.1	11.2	10.6	11.0	11.3	11.1	12.3	---	---	---	---	---	---	---
407	F	9.5	11.0	10.2	10.6	10.9	11.2	11.1	11.2	10.6	11.0	11.3	11.1	12.3	---	---	---	---	---	---	---
408	F	9.5	11.0	10.2	10.6	10.9	11.2	11.1	11.2	10.6	11.0	11.3	11.1	12.3	---	---	---	---	---	---	---
409	F	9.8	10.3	10.4	11.2	10.2	10.7	10.9	10.4	10.4	9.1	10.6	10.2	10.5	11.4	11.2	11.7	11.4	10.2	11.4	12.0
410	F	9.8	10.3	10.4	11.2	10.2	10.7	10.9	10.4	10.4	9.1	10.6	10.2	10.5	11.4	11.2	11.7	11.4	10.2	11.4	12.0
411	F	9.8	10.3	10.4	11.2	10.2	10.7	10.9	10.4	10.4	9.1	10.6	10.2	10.5	11.4	11.2	11.7	11.4	10.2	11.4	12.0
412	F	9.2	10.0	10.4	10.0	10.2	10.8	10.7	10.6	10.1	10.1	9.7	10.6	10.9	12.3	13.5	12.4	12.1	13.4	12.6	12.7
413	F	9.2	10.0	10.4	10.0	10.2	10.8	10.7	10.6	10.1	10.1	9.7	10.6	10.9	12.3	13.5	12.4	12.1	13.4	12.6	12.7
414	F	9.2	10.0	10.4	10.0	10.2	10.8	10.7	10.6	10.1	10.1	9.7	10.6	10.9	---	---	---	---	---	---	---
415	F	10.4	10.6	11.0	11.0	11.1	11.7	11.1	11.6	11.0	11.0	13.8	10.9	12.0	12.9	---	---	---	---	---	---
416	F	10.4	10.6	11.0	11.0	11.1	11.7	11.1	11.6	11.0	11.0	13.8	10.9	12.0	12.9	13.7	13.0	12.8	12.6	13.4	13.6
417	F	10.4	10.6	11.0	11.0	11.1	11.7	11.1	11.6	11.0	11.0	13.8	10.9	12.0	12.9	13.7	13.0	12.8	12.6	13.4	13.6
418	F	12.4	11.1	10.7	10.4	11.1	10.9	11.7	11.3	11.3	11.9	11.4	11.0	11.9	12.2	13.6	12.3	11.1	11.6	11.4	12.0
419	F	12.4	11.1	10.7	10.4	11.1	10.9	11.7	11.3	11.3	11.9	11.4	11.0	11.9	12.2	13.6	12.3	11.1	11.6	11.4	12.0
420	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
421	F	10.8	9.7	10.7	11.6	11.0	11.5	10.3	11.0	11.3	10.8	11.0	10.0	11.2	11.8	12.6	12.1	11.1	11.8	11.7	12.0
422	F	10.8	9.7	10.7	11.6	11.0	11.5	10.3	11.0	11.3	10.8	11.0	10.0	11.2	11.8	12.6	12.1	11.1	11.8	11.7	12.0
423	F	10.8	9.7	10.7	11.6	11.0	11.5	10.3	11.0	11.3	10.8	11.0	10.0	11.2	11.8	12.6	12.1	11.1	11.8	11.7	12.0
424	F	10.4	10.1	9.9	11.2	11.2	11.0	10.7	11.1	10.8	11.6	12.4	10.4	10.8	12.4	13.4	12.9	13.4	12.9	12.6	13.1
425	F	10.4	10.1	9.9	11.2	11.2	11.0	10.7	11.1	10.8	11.6	12.4	10.4	10.8	12.4	---	---	---	---	---	---
426	F	10.4	10.1	9.9	11.2	11.2	11.0	10.7	11.1	10.8	11.6	12.4	10.4	10.8	12.4	13.4	12.9	13.4	12.9	12.6	13.1
427	F	11.2	10.7	11.6	11.6	11.4	12.2	11.6	11.8	11.4	12.1	12.7	12.5	12.4	12.9	13.7	14.3	13.6	12.9	13.7	13.7
428	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
429	F	11.2	10.7	11.6	11.6	11.4	12.2	11.6	11.8	11.4	12.1	12.7	12.5	12.4	12.9	---	---	---	---	---	---
430	F	10.9	11.0	11.4	11.4	11.9	11.7	11.8	12.2	11.5	12.3	10.3	11.7	12.2	13.4	13.3	12.2	11.8	12.3	12.2	12.1
431	F	10.9	11.0	11.4	11.4	11.9	11.7	11.8	12.2	11.5	12.3	10.3	11.7	12.2	13.4	13.3	12.2	11.8	12.3	12.2	12.1
432	F	10.9	11.0	11.4	11.4	11.9	11.7	11.8	12.2	11.5	12.3	10.3	11.7	12.2	13.4	13.3	12.2	11.8	12.3	12.2	12.1
433	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
434	F	10.6	11.4	10.8	10.5	10.9	11.9	11.1	10.9	10.5	9.4	12.1	10.9	12.1	---	---	---	---	---	---	---
435	F	10.6	11.4	10.8	10.5	10.9	11.9	11.1	10.9	10.5	9.4	12.1	10.9	12.1	13.3	14.1	14.6	13.4	12.7	13.9	13.3
436	F	10.0	10.3	10.3	11.0	11.0	10.4	10.3	10.7	10.6	10.2	11.0	11.1	12.3	11.8	12.7	12.0	11.5	12.0	12.1	12.6
437	F	10.0	10.3	10.3	11.0	11.0	10.4	10.3	10.7	10.6	10.2	11.0	11.1	12.3	11.8	12.7	12.0	11.5	12.0	12.1	12.6
438	F	10.0	10.3	10.3	11.0	11.0	10.4	10.3	10.7	10.6	10.2	11.0	11.1	12.3	11.8	12.7	12.0	11.5	12.0	12.1	12.6
439	F	9.7	9.8	10.0	10.8	11.0	10.5	10.6	11.0	11.0	11.0	11.9	9.8	11.0	12.2	11.6	10.8	11.7	11.9	11.8	11.9
440	F	9.7	9.8	10.0	10.8	11.0	10.5	10.6	11.0	11.0	11.0	11.9	9.8	11.0	12.2	11.6	10.8	11.7	11.9	11.8	11.9

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L I D N O S O P X	T E S T W E E K	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
431	3 F	9.7	9.8	10.0	10.8	11.0	10.5	10.6	11.0	11.0	11.0	11.9	9.8	11.0	12.2	11.6	10.8	11.7	11.9	11.8	11.9
432	3 F	10.0	10.7	10.9	11.1	10.9	11.6	12.2	12.2	13.3	11.7	10.3	11.1	12.6	---	---	---	---	---	---	---
433	3 F	10.0	10.7	10.9	11.1	10.9	11.6	12.2	12.2	13.3	11.7	10.3	11.1	12.6	13.4	12.1	12.6	12.7	12.1	12.4	13.3
434	3 F	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
435	3 F	11.0	10.4	10.9	11.1	11.4	11.3	12.2	11.6	11.1	10.6	10.3	11.3	12.4	11.8	11.5	11.6	12.2	11.9	11.5	12.0
436	3 F	11.0	10.4	10.9	11.1	11.4	11.3	12.2	11.6	11.1	10.6	10.3	11.3	12.4	11.8	11.5	11.6	12.2	11.9	11.5	12.0
437	3 F	11.0	10.4	10.9	11.1	11.4	11.3	12.2	11.6	11.1	10.6	10.3	11.3	12.4	11.8	11.5	11.6	12.2	11.9	11.5	12.0
438	3 F	11.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
439	3 F	11.4	10.7	11.4	11.4	12.0	11.5	11.0	11.9	11.6	9.3	10.9	11.1	12.5	12.6	12.0	13.1	12.9	12.3	13.4	14.0
440	3 F	11.4	10.7	11.4	11.4	12.0	11.5	11.0	11.9	11.6	9.3	10.9	11.1	12.5	---	---	---	---	---	---	---
451	4 M	15.6	15.1	16.0	16.3	16.4	16.6	16.0	15.8	16.1	15.7	19.0	16.3	16.5	16.7	16.5	16.3	15.7	15.4	15.4	15.9
452	4 M	15.6	15.1	16.0	16.3	16.4	16.6	16.0	15.8	16.1	15.7	19.0	16.3	16.5	16.7	16.5	16.3	15.7	15.4	15.4	15.9
453	4 M	15.6	15.1	16.0	16.3	16.4	16.6	16.0	15.8	16.1	15.7	19.0	16.3	16.5	16.7	16.5	16.3	15.7	15.4	15.4	15.9
454	4 M	15.0	11.7	18.3	16.6	16.4	12.8	17.3	17.1	17.0	17.9	16.7	17.4	17.2	16.0	16.3	20.1	17.4	17.7	17.3	19.7
455	4 M	15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
456	4 M	15.0	11.7	18.3	16.6	16.4	12.8	17.3	17.1	17.0	17.9	16.7	17.4	17.2	---	---	---	---	---	---	---
457	4 M	15.8	15.4	16.1	15.8	16.0	16.4	16.3	16.5	16.4	15.2	17.7	15.5	16.2	15.6	17.1	17.1	15.6	17.1	16.7	16.8
458	4 M	15.8	15.4	16.1	15.8	16.0	16.4	16.3	16.5	16.4	15.2	17.7	15.5	16.2	15.6	17.1	17.1	15.6	17.1	16.7	16.8
459	4 M	15.8	15.4	16.1	15.8	16.0	16.4	16.3	16.5	16.4	15.2	17.7	15.5	16.2	15.6	17.1	17.1	15.6	17.1	16.7	16.8
460	4 M	11.7	14.9	16.5	16.4	16.3	16.6	18.4	17.6	15.9	9.7	18.1	15.1	16.7	17.1	16.9	16.9	17.2	15.3	16.5	16.5
461	4 M	14.7	14.9	16.5	16.4	16.3	16.6	18.4	17.6	15.9	9.7	18.1	15.1	16.7	17.1	16.9	16.9	17.2	15.3	16.5	16.5
462	4 M	14.7	14.9	16.5	16.4	16.3	16.6	18.4	17.6	15.9	9.7	18.1	15.1	16.7	17.1	16.9	16.9	17.2	15.3	16.5	16.5
463	4 M	15.9	16.1	16.7	16.7	17.3	17.6	17.4	17.3	17.4	17.1	18.5	16.4	16.8	---	---	---	---	---	---	---
464	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
465	4 M	15.9	16.1	16.7	16.7	17.3	17.6	17.4	17.3	17.4	17.1	18.5	16.4	16.8	16.4	17.1	17.3	17.0	16.9	16.1	16.0
466	4 M	14.7	14.6	14.9	15.0	15.6	15.7	15.8	14.9	15.5	15.7	16.0	15.3	15.3	15.9	15.5	14.7	15.4	15.4	14.7	15.5
467	4 M	14.7	14.6	14.9	15.0	15.6	15.7	15.8	14.9	15.5	15.7	16.0	15.3	15.3	15.9	15.5	14.7	15.4	15.4	14.7	15.5
468	4 M	14.7	14.6	14.9	15.0	15.6	15.7	15.8	14.9	15.5	15.7	16.0	15.3	15.3	15.9	15.5	14.7	15.4	15.4	14.7	15.5
469	4 M	16.6	16.4	16.4	16.4	16.7	16.4	16.5	16.3	16.7	10.4	18.2	15.1	16.9	17.6	17.3	17.9	15.4	15.9	16.2	16.4
470	4 M	16.6	16.4	16.4	16.4	16.7	16.4	16.5	16.3	16.7	10.4	18.2	15.1	16.9	17.6	17.3	17.9	15.4	15.9	16.2	16.4
471	4 M	16.6	16.4	16.4	16.4	16.7	16.4	16.5	16.3	16.7	10.4	18.2	15.1	16.9	17.6	17.3	17.9	15.4	15.9	16.2	16.4
472	4 M	15.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
473	4 M	15.8	17.6	17.6	17.5	17.2	17.1	18.7	18.3	18.4	17.6	16.0	16.7	18.4	18.5	17.7	17.3	17.6	17.2	17.1	16.6
474	4 M	15.8	17.6	17.6	17.5	17.2	17.1	18.7	18.3	18.4	17.6	16.0	16.7	18.4	18.5	17.7	17.3	17.6	17.2	17.1	16.6
475	4 M	15.4	15.6	16.4	15.8	16.2	16.9	16.6	16.2	15.3	16.3	15.7	15.4	16.7	17.9	18.5	17.6	17.4	16.5	17.1	17.6
476	4 M	15.4	15.6	16.4	15.8	16.2	16.9	16.6	16.2	15.3	16.3	15.7	15.4	16.7	17.9	18.5	17.6	17.4	16.5	17.1	17.6
477	4 M	15.4	15.6	16.4	15.8	16.2	16.9	16.6	16.2	15.3	16.3	15.7	15.4	16.7	17.9	18.5	17.6	17.4	16.5	17.1	17.6
478	4 M	16.6	16.2	17.1	16.8	16.3	16.4	16.1	16.8	16.1	10.3	17.9	14.7	16.6	17.5	16.7	16.5	16.7	12.5	15.3	17.4
479	4 M	16.6	16.2	17.1	16.8	16.3	16.4	16.1	16.8	16.1	10.3	17.9	14.7	16.6	17.5	16.7	16.5	16.7	12.5	15.3	17.4
480	4 M	15.6	16.2	17.1	16.8	16.3	16.4	16.1	16.8	16.1	10.3	17.9	14.7	16.6	17.5	16.7	16.5	16.7	12.5	15.3	17.4

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T M R A M L G R N O S O U P X		TEST WEEK																63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
481	4 M	16.6	17.9	18.1	18.4	18.0	17.4	18.1	17.6	18.6	14.2	18.8	17.5	17.9	17.9	19.4	18.1	17.9	17.4
482	4 M	16.6	17.9	18.1	18.4	18.0	17.4	18.1	17.6	18.6	14.2	18.8	17.5	17.9	17.9	19.4	18.1	17.9	17.4
483	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
484	4 M	13.8	14.0	14.3	14.9	15.1	14.1	14.9	15.3	14.0	13.1	14.9	14.4	15.5	---	---	---	---	---
485	4 M	13.8	14.0	14.3	14.9	15.1	14.1	14.9	15.3	14.0	13.1	14.9	14.4	15.5	---	---	---	---	---
486	4 M	13.8	14.0	14.3	14.9	15.1	14.1	14.9	15.3	14.0	13.1	14.9	14.4	15.5	---	---	---	---	---
487	4 M	15.0	15.3	16.0	16.0	16.0	16.0	16.4	16.0	15.0	14.2	15.9	13.6	16.4	16.3	16.4	15.6	15.1	14.7
488	4 M	15.0	15.3	16.0	16.0	16.0	16.0	16.4	16.0	15.0	14.2	15.9	13.6	16.4	16.3	16.4	15.6	15.1	14.7
489	4 M	15.0	15.3	16.0	16.0	16.0	16.0	16.4	16.0	15.0	14.2	15.9	13.6	16.4	16.3	16.4	15.6	15.1	14.7
490	4 M	14.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
491	4 M	14.4	15.1	15.4	16.3	16.8	16.9	16.2	16.5	15.8	12.6	17.7	16.8	16.9	14.9	15.3	16.7	16.9	15.7
492	4 M	14.4	15.1	15.4	16.3	16.8	16.9	16.2	16.5	15.8	12.6	17.7	16.8	16.9	14.9	---	---	---	---
493	4 M	16.3	15.2	15.7	16.0	16.3	16.1	16.6	16.0	15.7	12.3	16.6	15.2	15.6	16.1	16.8	15.6	15.5	15.2
494	4 M	16.3	15.2	15.7	16.0	16.3	16.1	16.6	16.0	15.7	12.3	16.6	15.2	15.6	16.1	16.8	15.6	15.5	15.2
495	4 M	16.3	15.2	15.7	16.0	16.3	16.1	16.6	16.0	15.7	12.3	16.6	15.2	15.6	16.1	16.8	15.6	15.5	15.2
496	4 M	16.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
497	4 M	16.1	16.1	16.5	17.1	17.2	17.4	17.3	16.9	16.4	17.3	16.7	16.2	16.9	---	---	---	---	---
498	4 M	16.1	16.1	16.5	17.1	17.2	17.4	17.3	16.9	16.4	17.3	16.7	16.2	16.9	15.7	17.4	19.3	18.4	16.7
499	4 M	15.0	16.4	16.4	16.8	15.7	16.4	17.2	16.4	16.5	13.5	16.2	15.6	16.9	17.5	16.6	17.0	16.7	15.8
500	4 M	15.0	16.4	16.4	16.8	15.7	16.4	17.2	16.4	16.5	13.5	16.2	15.6	16.9	17.5	16.6	17.0	16.7	15.8
501	4 M	15.0	16.4	16.4	16.8	15.7	16.4	17.2	16.4	16.5	13.5	16.2	15.6	16.9	17.5	16.6	17.0	16.7	15.8
502	4 M	16.7	16.4	16.8	14.9	17.4	17.2	17.4	17.3	17.1	12.5	17.0	16.1	18.2	18.0	17.4	15.0	16.8	16.5
503	4 M	16.7	16.4	16.8	14.9	17.4	17.2	17.4	17.3	17.1	12.5	17.0	16.1	18.2	18.0	17.4	15.0	16.8	16.5
504	4 M	16.7	16.4	16.8	14.9	17.4	17.2	17.4	17.3	17.1	12.5	17.0	16.1	18.2	18.0	17.4	15.0	16.8	16.5
505	4 M	15.4	16.1	16.0	16.4	15.9	16.5	16.3	16.1	15.9	16.3	15.1	15.2	16.2	16.3	16.6	15.6	15.3	15.6
506	4 M	15.4	16.1	16.0	16.4	15.9	16.5	16.3	16.1	15.9	16.3	15.1	15.2	16.2	16.3	16.6	15.6	15.3	15.6
507	4 M	15.4	16.1	16.0	16.4	15.9	16.5	16.3	16.1	15.9	16.3	15.1	15.2	16.2	16.3	16.6	15.6	15.3	15.6
508	4 M	13.6	14.6	14.5	14.8	14.9	15.0	15.9	14.0	14.3	15.4	13.7	14.1	14.3	16.0	---	---	---	---
509	4 M	13.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
510	4 M	13.6	14.6	14.5	14.8	14.9	15.0	15.9	14.0	14.3	15.4	13.7	14.1	14.3	16.0	16.1	17.0	17.3	16.4
511	4 M	15.9	16.6	17.9	17.7	17.6	18.6	18.0	18.1	17.6	20.1	16.5	15.6	17.4	18.3	18.1	17.3	17.3	16.4
512	4 M	15.9	16.6	17.9	17.7	17.6	18.6	18.0	18.1	17.6	20.1	16.5	15.6	17.4	18.3	18.1	17.3	17.3	16.4
513	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
514	4 M	13.8	16.1	18.3	18.9	18.1	19.4	18.4	17.7	17.1	18.6	16.7	17.3	19.1	17.4	17.3	17.4	16.7	16.9
515	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
516	4 M	13.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
517	4 M	15.5	16.7	16.8	17.0	16.8	17.1	15.9	17.5	18.0	11.2	19.4	16.6	18.0	---	---	---	---	---
518	4 M	15.5	16.7	16.8	17.0	16.8	17.1	15.9	17.5	18.0	11.2	19.4	16.6	18.0	17.7	19.6	18.4	17.6	16.1
519	4 M	16.5	16.7	16.8	17.0	16.8	17.1	15.9	17.5	18.0	11.2	19.4	16.6	18.0	17.7	19.6	18.4	17.6	16.1
520	4 M	15.4	15.4	16.0	16.6	16.5	16.1	15.9	16.0	15.9	13.2	16.1	15.3	16.7	17.5	17.7	16.5	15.0	15.3

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T I M A I N O U P	S E X	TEST WEEK														65				
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63
521	M	15.4	15.4	16.0	16.6	16.5	16.1	15.9	16.0	15.9	13.2	16.1	15.3	16.7	17.5	17.7	16.5	15.0	15.3	15.4
522	M	15.4	15.4	16.0	16.6	16.5	16.1	15.9	16.0	15.9	13.2	16.1	15.3	16.7	17.5	17.7	16.5	15.0	15.3	15.4
523	M	16.0	16.4	16.7	17.0	17.0	16.9	17.8	17.1	16.8	13.5	15.2	15.1	17.6	17.2	16.3	16.1	15.9	15.4	16.6
524	M	16.0	16.4	16.7	17.0	17.0	16.9	17.8	17.1	16.8	13.5	15.2	15.1	17.6	17.2	16.3	16.1	15.9	15.4	16.6
525	M	16.0	16.4	16.7	17.0	17.0	16.9	17.8	17.1	16.8	13.5	15.2	15.1	17.6	17.2	16.3	16.1	15.9	15.4	16.6
526	F	9.0	9.4	9.7	9.2	10.1	10.5	10.7	10.3	10.2	10.1	11.4	9.9	10.9	10.4	10.5	11.1	10.9	10.6	10.7
527	F	9.0	9.4	9.7	9.2	10.1	10.5	10.7	10.3	10.2	10.1	11.4	9.9	10.9	10.4	10.5	11.1	10.9	10.6	10.7
528	F	9.0	9.4	9.7	9.2	10.1	10.5	10.7	10.3	10.2	10.1	11.4	9.9	10.9	10.4	10.5	11.1	10.9	10.6	10.7
529	F	9.2	9.6	9.8	9.3	9.9	10.6	10.4	10.3	10.7	10.3	11.3	8.9	10.0	10.9	12.0	12.9	12.3	12.9	13.7
530	F	9.2	9.6	9.8	9.3	9.9	10.6	10.4	10.3	10.7	10.3	11.3	8.9	10.0	10.9	12.0	12.9	12.3	12.9	13.7
531	F	9.5	10.2	10.0	10.2	10.1	10.3	10.4	11.0	10.6	10.2	11.7	10.7	10.9	10.4	11.9	11.3	11.1	11.2	10.6
532	F	9.5	10.2	10.0	10.2	10.1	10.3	10.4	11.0	10.6	10.2	11.7	10.7	10.9	10.4	11.9	11.3	11.1	11.2	10.6
533	F	9.5	10.2	10.0	10.2	10.1	10.3	10.4	11.0	10.6	10.2	11.7	10.7	10.9	10.4	11.9	11.3	11.1	11.2	10.6
534	F	9.5	10.2	10.0	10.2	10.1	10.3	10.4	11.0	10.6	10.2	11.7	10.7	10.9	10.4	11.9	11.3	11.1	11.2	10.6
535	F	9.7	10.5	11.4	11.8	11.6	13.0	11.7	11.7	11.9	12.1	11.8	11.4	10.7	11.9	12.7	12.8	12.7	12.6	11.3
536	F	9.7	10.5	11.4	11.8	11.6	13.0	11.7	11.7	11.9	12.1	11.8	11.4	10.7	11.9	12.7	12.8	12.7	12.6	11.3
537	F	9.7	10.5	11.4	11.8	11.6	13.0	11.7	11.7	11.9	12.1	11.8	11.4	10.7	11.9	12.7	12.8	12.7	12.6	11.3
538	F	10.2	10.3	10.9	11.0	10.5	11.6	10.6	11.0	11.0	10.9	12.7	11.1	11.4	12.3	13.3	12.7	12.4	12.7	13.0
539	F	10.2	10.3	10.9	11.0	10.5	11.6	10.6	11.0	11.0	10.9	12.7	11.1	11.4	12.3	13.3	12.7	12.4	12.7	13.0
540	F	10.2	10.3	10.9	11.0	10.5	11.6	10.6	11.0	11.0	10.9	12.7	11.1	11.4	12.3	13.3	12.7	12.4	12.7	13.0
541	F	9.4	10.0	10.7	10.9	11.1	11.0	11.4	11.4	10.6	11.5	11.9	11.7	11.6	12.2	13.0	13.1	12.1	12.7	12.4
542	F	9.4	10.0	10.7	10.9	11.1	11.0	11.4	11.4	10.6	11.5	11.9	11.7	11.6	12.2	13.0	13.1	12.1	12.7	12.4
543	F	9.4	10.0	10.7	10.9	11.1	11.0	11.4	11.4	10.6	11.5	11.9	11.7	11.6	12.2	13.0	13.1	12.1	12.7	12.4
544	F	8.4	9.7	10.3	10.0	10.4	10.3	10.9	10.9	10.2	9.4	11.4	10.7	11.1	11.1	11.0	12.5	11.3	11.9	11.7
545	F	8.4	9.7	10.3	10.0	10.4	10.3	10.9	10.9	10.2	9.4	11.4	10.7	11.1	11.1	11.0	12.5	11.3	11.9	11.7
546	F	8.4	9.7	10.3	10.0	10.4	10.3	10.9	10.9	10.2	9.4	11.4	10.7	11.1	11.1	11.0	12.5	11.3	11.9	11.7
547	F	9.9	10.2	10.9	11.8	11.6	11.6	11.1	11.5	11.9	12.0	11.1	11.2	11.9	11.5	12.8	12.6	11.8	11.9	12.1
548	F	9.9	10.2	10.9	11.8	11.6	11.6	11.1	11.5	11.9	12.0	11.1	11.2	11.9	11.5	12.8	12.6	11.8	11.9	12.1
549	F	9.9	10.2	10.9	11.8	11.6	11.6	11.1	11.5	11.9	12.0	11.1	11.2	11.9	11.5	12.8	12.6	11.8	11.9	12.1
550	F	10.9	10.6	11.6	11.7	11.2	11.1	11.3	12.1	12.2	11.9	10.9	11.5	11.9	13.0	13.3	12.8	11.6	12.1	12.5
551	F	10.9	10.6	11.6	11.7	11.2	11.1	11.3	12.1	12.2	11.9	10.9	11.5	11.9	13.0	13.3	12.8	11.6	12.1	12.5
552	F	10.9	10.6	11.6	11.7	11.2	11.1	11.3	12.1	12.2	11.9	10.9	11.5	11.9	13.0	13.3	12.8	11.6	12.1	12.5
553	F	9.9	10.6	10.0	10.8	10.4	11.1	11.1	11.2	10.7	11.1	11.5	10.8	11.0	11.0	9.4	10.9	12.0	12.0	11.2
554	F	9.9	10.6	10.0	10.8	10.4	11.1	11.1	11.2	10.7	11.1	11.5	10.8	11.0	11.0	9.4	10.9	12.0	12.0	11.2
555	F	9.9	10.6	10.0	10.8	10.4	11.1	11.1	11.2	10.7	11.1	11.5	10.8	11.0	11.0	9.4	10.9	12.0	12.0	11.2
556	F	10.2	9.9	10.6	10.4	10.0	10.8	10.6	10.7	10.0	8.2	9.6	9.2	11.0	11.3	13.1	11.1	11.4	11.1	11.7
557	F	10.2	9.9	10.6	10.4	10.0	10.8	10.6	10.7	10.0	8.2	9.6	9.2	11.0	11.3	13.1	11.1	11.4	11.1	11.7
558	F	10.2	9.9	10.6	10.4	10.0	10.8	10.6	10.7	10.0	8.2	9.6	9.2	11.0	11.3	13.1	11.1	11.4	11.1	11.7
559	F	9.4	10.1	10.6	11.5	10.3	10.9	11.7	12.0	11.6	8.6	10.1	10.1	11.8	11.1	10.7	11.7	11.7	11.0	11.7
560	F	9.4	10.1	10.6	11.5	10.3	10.9	11.7	12.0	11.6	8.6	10.1	10.1	11.8	11.1	10.7	11.7	11.7	11.0	11.7

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T I M E L G R N O U P X		TEST WEEK																63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
561	4 F	9.4	10.1	10.3	10.7	10.8	10.4	11.3	11.0	10.7	12.2	9.7	10.0	11.2	11.0	11.9	11.2	10.9	10.5
562	4 F	9.8	10.1	10.3	10.7	10.8	10.4	11.3	11.0	10.7	12.2	9.7	10.0	11.2	11.0	11.9	11.2	10.9	10.5
563	4 F	9.8	10.1	10.3	10.7	10.8	10.4	11.3	11.0	10.7	12.2	9.7	10.0	11.2	11.0	11.9	11.2	10.9	10.5
564	4 F	9.8	10.1	10.3	10.7	10.8	10.4	11.3	11.0	10.7	12.2	9.7	10.0	11.2	11.0	11.9	11.2	10.9	10.5
565	4 F	11.0	10.1	10.0	10.3	10.7	10.7	11.9	11.8	11.4	10.6	7.9	11.2	10.1	11.1	11.7	11.9	11.4	11.6
566	4 F	11.0	10.1	10.0	10.3	10.7	10.7	11.9	11.8	11.4	10.6	7.9	11.2	10.1	---	---	---	---	---
567	4 F	11.0	10.1	10.0	10.3	10.7	10.7	11.9	11.8	11.4	10.6	7.9	11.2	10.1	---	---	---	---	---
568	4 F	9.5	10.2	10.6	11.3	11.1	10.6	11.3	11.3	11.0	10.2	10.4	10.0	11.2	11.8	11.6	10.9	10.5	10.6
569	4 F	9.5	10.2	10.6	11.3	11.1	10.6	11.3	11.3	11.0	10.2	10.4	10.0	11.2	11.8	11.6	10.9	10.5	10.6
570	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
571	4 F	9.0	9.2	9.3	10.2	9.7	10.0	10.2	10.3	10.1	8.7	10.3	9.5	10.8	11.0	11.5	11.0	11.1	11.1
572	4 F	9.0	9.2	9.3	10.2	9.7	10.0	10.2	10.3	10.1	8.7	10.3	9.5	10.8	11.0	11.5	11.0	11.1	11.1
573	4 F	9.0	9.2	9.3	10.2	9.7	10.0	10.2	10.3	10.1	8.7	10.3	9.5	10.8	11.0	11.5	11.0	11.1	11.1
574	4 F	9.7	10.0	10.5	10.7	10.1	10.7	12.0	11.8	10.6	10.7	10.1	10.0	10.8	11.1	11.0	10.9	10.8	11.1
575	4 F	9.7	10.0	10.5	10.7	10.1	10.7	12.0	11.8	10.6	10.7	10.1	10.0	10.8	11.1	11.0	10.9	10.8	11.1
576	4 F	9.7	10.0	10.5	10.7	10.1	10.7	12.0	11.8	10.6	10.7	10.1	10.0	10.8	11.1	11.0	10.9	10.8	11.1
577	4 F	10.1	11.0	10.9	11.0	11.0	12.1	11.8	12.1	11.2	12.1	10.9	10.9	12.4	12.2	12.2	11.9	11.5	12.0
578	4 F	10.1	11.0	10.9	11.0	11.0	12.1	11.8	12.1	11.2	12.1	10.9	10.9	12.4	12.2	12.2	11.9	11.5	12.0
579	4 F	10.1	11.0	10.9	11.0	11.0	12.1	11.8	12.1	11.2	12.1	10.9	10.9	12.4	12.2	12.2	11.9	11.5	12.0
580	4 F	8.3	10.9	9.6	11.0	10.5	10.0	11.0	11.5	11.1	10.0	10.6	10.5	11.1	12.2	12.2	11.9	11.7	11.6
581	4 F	8.3	10.9	9.6	11.0	10.5	10.0	11.0	11.5	11.1	10.0	10.6	10.5	11.1	12.2	12.2	11.9	11.7	11.6
582	4 F	8.3	10.9	9.6	11.0	10.5	10.0	11.0	11.5	11.1	10.0	10.6	10.5	11.1	12.2	12.2	11.9	11.7	11.6
583	4 F	9.8	9.9	10.4	10.9	10.7	11.0	11.9	11.9	10.7	10.7	10.7	10.9	12.1	12.7	12.4	12.0	11.3	11.1
584	4 F	9.8	9.9	10.4	10.9	10.7	11.0	11.9	11.9	10.7	10.7	10.7	10.9	12.1	12.7	12.4	12.0	11.3	11.1
585	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
586	4 F	9.4	11.3	11.1	12.7	11.3	8.9	11.3	12.2	11.4	11.4	11.1	11.4	12.5	13.0	12.9	12.9	11.8	11.7
587	4 F	9.4	11.3	11.1	12.7	11.3	8.9	11.3	12.2	11.4	11.4	11.1	11.4	12.5	13.0	12.9	12.9	11.8	11.7
588	4 F	9.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
589	4 F	9.4	10.2	10.0	10.2	10.2	10.7	11.0	11.1	10.4	10.9	10.1	10.6	11.1	12.0	12.1	12.0	11.3	11.2
590	4 F	9.4	10.2	10.0	10.2	10.2	10.7	11.0	11.1	10.4	10.9	10.1	10.6	11.1	12.0	12.1	12.0	11.3	11.2
591	4 F	9.4	10.2	10.0	10.2	10.2	10.7	11.0	11.1	10.4	10.9	10.1	10.6	11.1	12.0	12.1	12.0	11.3	11.2
592	4 F	10.1	10.4	10.0	12.0	10.6	11.1	11.8	11.9	11.0	11.8	10.2	10.5	11.5	12.4	12.8	11.2	11.4	11.1
593	4 F	10.1	10.4	10.0	12.0	10.6	11.1	11.8	11.9	11.0	11.8	10.2	10.5	11.5	12.4	12.8	11.2	11.4	11.1
594	4 F	10.1	10.4	10.0	12.0	10.6	11.1	11.8	11.9	11.0	11.8	10.2	10.5	11.5	12.4	12.8	11.2	11.4	11.1
595	4 F	8.9	10.0	11.7	10.6	9.8	10.0	10.7	11.1	11.2	10.7	10.0	10.7	11.6	11.2	11.4	11.0	10.6	10.6
596	4 F	8.9	10.0	11.7	10.6	9.8	10.0	10.7	11.1	11.2	10.7	10.0	10.7	11.6	11.2	11.4	11.0	10.6	10.6
597	4 F	8.9	10.0	11.7	10.6	9.8	10.0	10.7	11.1	11.2	10.7	10.0	10.7	11.6	11.2	11.4	11.0	10.6	10.6
598	4 F	9.8	11.6	11.3	11.6	11.2	12.4	12.2	12.7	12.3	12.4	11.1	11.4	12.9	13.4	12.8	13.0	12.9	11.4
599	4 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
600	4 F	9.8	11.6	11.3	11.6	11.2	12.4	12.2	12.7	12.3	12.4	11.1	11.4	12.9	13.4	12.8	13.0	12.9	11.4

--- = NO AVAILABLE DATA



Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T M R A L N O P X	S	TEST WEEK																63	65		
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
641	S	14.3	14.9	16.1	16.3	17.3	16.4	17.6	16.3	16.4	14.6	17.1	16.0	16.8	16.9	15.9	16.5	15.9	16.1	14.9	15.5
642	S	14.3	14.9	16.1	16.3	17.3	16.4	17.6	16.3	16.4	14.6	17.1	16.0	16.8	16.9	15.9	16.5	15.9	16.1	14.9	15.5
643	S	15.2	15.1	15.4	16.4	16.2	16.0	16.4	15.4	16.0	16.0	16.5	15.1	15.9	16.3	16.2	15.6	15.4	14.8	14.7	15.1
644	S	15.2	15.1	15.4	16.4	16.2	16.0	16.4	15.4	16.0	16.0	16.5	15.1	15.9	16.3	16.2	15.6	15.4	14.8	14.7	15.1
645	S	14.3	14.7	15.2	15.3	14.9	16.0	15.7	15.0	15.6	13.8	15.2	14.9	15.3	15.8	15.0	14.9	14.8	14.4	14.0	14.7
646	S	14.3	14.7	15.2	15.3	14.9	16.0	15.7	15.0	15.6	13.8	15.2	14.9	15.3	15.8	15.0	14.9	14.8	14.4	14.0	14.7
647	S	14.3	14.7	15.2	15.3	14.9	16.0	15.7	15.0	15.6	13.8	15.2	14.9	15.3	15.8	15.0	14.9	14.8	14.4	14.0	14.7
648	S	14.3	14.7	15.2	15.3	14.9	16.0	15.7	15.0	15.6	13.8	15.2	14.9	15.3	15.8	15.0	14.9	14.8	14.4	14.0	14.7
649	S	14.3	15.1	14.9	15.2	15.4	15.2	16.0	15.8	15.8	12.7	14.6	14.9	15.9	16.1	15.3	15.4	14.5	14.2	14.4	14.1
650	S	14.3	15.1	14.9	15.2	15.4	15.2	16.0	15.8	15.8	12.7	14.6	14.9	15.9	16.1	15.3	15.4	14.5	14.2	14.4	14.1
651	S	14.3	15.1	14.9	15.2	15.4	15.2	16.0	15.8	15.8	12.7	14.6	14.9	15.9	16.1	15.3	15.4	14.5	14.2	14.4	14.1
652	S	13.9	14.5	14.7	14.7	15.2	15.8	14.9	14.6	15.2	---	16.0	14.4	15.6	16.4	15.5	14.5	14.5	13.6	14.1	14.4
653	S	13.9	14.5	14.7	14.7	15.2	15.8	14.9	14.6	15.2	---	16.0	14.4	15.6	16.4	15.5	14.5	14.5	13.6	14.1	14.4
654	S	13.9	14.5	14.7	14.7	15.2	15.8	14.9	14.6	15.2	---	16.0	14.4	15.6	16.4	15.5	14.5	14.5	13.6	14.1	14.4
655	S	12.7	13.6	14.0	14.9	15.0	14.8	15.1	14.4	14.8	11.2	17.2	14.7	15.6	15.2	14.6	15.6	14.4	14.0	14.6	14.4
656	S	12.7	13.6	14.0	14.9	15.0	14.8	15.1	14.4	14.8	11.2	17.2	14.7	15.6	15.2	14.6	15.6	14.4	14.0	14.6	14.4
657	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
658	S	13.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
659	S	13.8	14.2	15.1	15.6	14.9	14.8	15.6	15.1	15.8	15.6	15.5	14.9	15.8	15.4	17.3	18.4	18.0	17.3	16.6	17.4
660	S	13.8	14.2	15.1	15.6	14.9	14.8	15.6	15.1	15.8	15.6	15.5	14.9	15.8	---	---	---	---	---	---	---
661	S	14.6	15.6	15.9	16.0	15.8	16.4	16.3	15.9	15.9	17.5	16.7	15.1	15.9	16.1	16.6	15.9	15.1	14.6	15.3	15.1
662	S	14.6	15.6	15.9	16.0	15.8	16.4	16.3	15.9	15.9	17.5	16.7	15.1	15.9	16.1	16.6	15.9	15.1	14.6	15.3	15.1
663	S	14.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
664	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
665	S	13.9	14.4	15.2	15.6	15.2	16.6	15.6	16.7	15.8	13.6	15.9	14.9	16.9	16.3	15.9	16.3	17.0	15.1	15.9	15.3
666	S	13.9	14.4	15.2	15.6	15.2	16.6	15.6	16.7	15.8	13.6	15.9	14.9	16.9	---	---	---	---	---	---	---
667	S	14.6	14.4	15.2	15.5	15.8	15.7	16.0	15.6	17.2	11.0	16.0	15.2	16.0	16.2	16.9	17.2	16.1	14.6	15.4	15.1
668	S	14.6	14.4	15.2	15.5	15.8	15.7	16.0	15.6	17.2	11.0	16.0	15.2	16.0	16.2	16.9	17.2	16.1	14.6	15.4	15.1
669	S	14.6	14.4	15.2	15.5	15.8	15.7	16.0	15.6	17.2	11.0	16.0	15.2	16.0	16.2	16.9	17.2	16.1	14.6	15.4	15.1
670	S	13.5	14.4	15.1	16.0	15.1	15.9	15.0	15.8	15.6	16.9	14.9	14.6	15.5	16.4	16.3	15.4	14.3	14.7	14.8	14.9
671	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
672	S	13.5	14.4	15.1	16.0	15.1	15.9	15.0	15.8	15.6	16.9	14.9	14.6	15.5	16.4	16.3	15.4	14.3	14.7	14.8	14.9
673	S	15.7	15.4	16.5	17.1	17.0	17.3	17.7	17.5	16.7	16.3	16.8	17.0	18.2	17.0	18.2	16.7	16.8	15.3	15.5	15.2
674	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
675	S	15.7	15.4	16.5	17.1	17.0	17.3	17.7	17.5	16.7	16.3	16.8	17.0	18.2	17.0	18.2	16.7	16.8	15.3	15.5	15.2
676	S	7.7	8.7	9.0	8.8	9.4	9.3	8.9	9.7	9.4	9.4	8.9	9.7	9.0	9.4	9.7	10.2	9.9	9.0	8.7	9.7
677	S	7.7	8.7	9.0	8.8	9.4	9.3	8.9	9.7	9.4	9.4	8.9	9.7	9.0	9.4	9.7	10.2	9.9	9.0	8.7	9.7
678	S	7.7	8.7	9.0	8.8	9.4	9.3	8.9	9.7	9.4	9.4	8.9	9.7	9.0	9.4	9.7	10.2	9.9	9.0	8.7	9.7
679	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
680	S	8.9	9.4	9.8	9.6	9.4	9.9	11.1	10.2	10.6	9.6	9.1	9.6	9.9	10.4	10.0	10.5	9.9	10.1	9.9	9.6

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T I M E L G R O S O U E	X	TEST WEEK																63	65
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
681	5	8.9	9.4	9.8	9.6	9.4	9.9	11.1	10.2	10.6	9.6	9.1	9.6	9.9	10.4	10.0	10.5	9.9	10.1
682	5	8.1	8.5	8.3	8.6	9.1	9.0	9.3	9.4	9.0	8.6	9.5	8.9	9.6	9.8	9.8	9.0	9.3	8.8
683	5	8.1	8.5	8.3	8.6	9.1	9.0	9.3	9.4	9.0	8.6	9.5	8.9	9.6	9.8	9.8	9.0	9.3	8.8
684	5	8.1	8.5	8.3	8.6	9.1	9.0	9.3	9.4	9.0	8.6	9.5	8.9	9.6	9.8	9.8	9.0	9.3	8.8
685	5	8.9	8.9	9.0	9.5	9.9	9.6	10.0	9.8	10.0	9.8	9.5	9.2	10.0	10.4	11.1	11.0	10.3	10.7
686	5	8.9	8.9	9.0	9.5	9.9	9.6	10.0	9.8	10.0	9.8	9.5	9.2	10.0	10.4	11.1	11.0	10.3	10.7
687	5	8.9	8.9	9.0	9.5	9.9	9.6	10.0	9.8	10.0	9.8	9.5	9.2	10.0	10.4	11.1	11.0	10.3	10.7
688	5	8.2	9.4	9.4	9.2	9.7	10.2	10.8	10.0	10.1	10.4	8.0	10.6	10.4	10.0	10.6	11.1	10.9	10.9
689	5	8.2	9.4	9.4	9.2	9.7	10.2	10.8	10.0	10.1	10.4	8.0	10.6	10.4	10.0	10.6	11.1	10.9	10.9
690	5	8.2	9.4	9.4	9.2	9.7	10.2	10.8	10.0	10.1	10.4	8.0	10.6	10.4	10.0	10.6	11.1	10.9	10.9
691	5	8.6	9.2	9.4	9.6	10.0	10.4	10.2	10.3	10.1	8.3	11.0	9.5	10.3	10.9	10.9	10.8	10.5	10.0
692	5	8.6	9.2	9.4	9.6	10.0	10.4	10.2	10.3	10.1	8.3	11.0	9.5	10.3	10.9	10.9	10.8	10.5	10.0
693	5	8.6	9.2	9.4	9.6	10.0	10.4	10.2	10.3	10.1	8.3	11.0	9.5	10.3	10.9	10.9	10.8	10.5	10.0
694	5	8.3	9.4	9.9	10.0	10.3	10.3	10.9	10.1	10.5	9.4	12.0	9.5	9.7	9.9	10.6	9.4	9.8	10.1
695	5	8.3	9.4	9.9	10.0	10.3	10.3	10.9	10.1	10.5	9.4	12.0	9.5	9.7	9.9	10.6	9.4	9.8	10.1
696	5	8.3	9.4	9.9	10.0	10.3	10.3	10.9	10.1	10.5	9.4	12.0	9.5	9.7	9.9	10.6	9.4	9.8	10.1
697	5	8.3	9.4	9.9	10.0	10.3	10.3	10.9	10.1	10.5	9.4	12.0	9.5	9.7	9.9	10.6	9.4	9.8	10.1
698	5	9.4	10.3	10.1	10.1	10.4	10.6	10.6	10.5	10.4	10.0	11.4	10.9	10.9	10.9	10.6	10.9	10.4	10.6
699	5	9.4	10.3	10.1	10.1	10.4	10.6	10.6	10.5	10.4	10.0	11.4	10.9	10.9	10.9	10.6	10.9	10.4	10.6
700	5	8.4	8.7	9.7	9.4	9.4	9.4	9.5	9.5	8.9	8.8	10.9	9.1	9.2	10.0	9.4	9.4	9.3	9.1
701	5	8.4	8.7	9.7	9.4	9.4	9.4	9.5	9.5	8.9	8.8	10.9	9.1	9.2	10.0	9.4	9.4	9.3	9.1
702	5	8.4	8.7	9.7	9.4	9.4	9.4	9.5	9.5	8.9	8.8	10.9	9.1	9.2	10.0	9.4	9.4	9.3	9.1
703	5	8.2	8.3	8.3	8.4	9.4	9.2	9.2	9.2	9.1	8.9	9.2	8.5	8.6	9.1	9.4	9.1	9.3	8.4
704	5	8.2	8.3	8.3	8.4	9.4	9.2	9.2	9.2	9.1	8.9	9.2	8.5	8.6	9.1	9.4	9.1	9.3	8.4
705	5	8.2	8.3	8.3	8.4	9.4	9.2	9.2	9.2	9.1	8.9	9.2	8.5	8.6	9.1	9.4	9.1	9.3	8.4
706	5	8.6	8.5	8.8	8.5	9.3	9.5	9.6	9.5	9.3	7.1	8.8	8.3	8.8	9.8	9.7	8.7	9.5	9.4
707	5	8.6	8.5	8.8	8.5	9.3	9.5	9.6	9.5	9.3	7.1	8.8	8.3	8.8	9.8	9.7	8.7	9.5	9.4
708	5	8.6	8.5	8.8	8.5	9.3	9.5	9.6	9.5	9.3	7.1	8.8	8.3	8.8	9.8	9.7	8.7	9.5	9.4
709	5	8.2	8.9	9.0	9.1	9.1	10.0	9.7	10.0	8.8	7.7	9.3	9.0	10.4	9.9	9.7	9.4	9.0	9.1
710	5	8.2	8.9	9.0	9.1	9.1	10.0	9.7	10.0	8.8	7.7	9.3	9.0	10.4	9.9	9.7	9.4	9.0	9.1
711	5	8.2	8.9	9.0	9.1	9.1	10.0	9.7	10.0	8.8	7.7	9.3	9.0	10.4	9.9	9.7	9.4	9.0	9.1
712	5	7.9	9.1	8.7	9.0	9.6	9.9	10.0	10.2	9.1	6.9	9.0	9.0	9.7	10.1	14.1	9.8	8.8	8.8
713	5	7.9	9.1	8.7	9.0	9.6	9.9	10.0	10.2	9.1	6.9	9.0	9.0	9.7	10.1	14.1	9.8	8.8	8.8
714	5	9.0	9.1	11.4	10.1	10.4	10.4	10.4	10.7	11.6	7.2	10.9	9.1	10.5	11.8	11.4	12.1	10.9	11.3
715	5	9.0	9.1	11.4	10.1	10.4	10.4	10.4	10.7	11.6	7.2	10.9	9.1	10.5	11.8	11.4	12.1	10.9	11.3
716	5	9.0	9.1	11.4	10.1	10.4	10.4	10.4	10.7	11.6	7.2	10.9	9.1	10.5	11.8	11.4	12.1	10.9	11.3
717	5	8.0	8.8	9.6	10.0	9.7	10.3	9.9	10.3	10.1	9.5	9.4	8.2	9.1	10.5	11.8	12.1	10.9	11.3
718	5	8.0	8.8	9.6	10.0	9.7	10.3	9.9	10.3	10.1	9.5	9.4	8.2	9.1	10.5	11.8	12.1	10.9	11.3
719	5	8.0	8.8	9.6	10.0	9.7	10.3	9.9	10.3	10.1	9.5	9.4	8.2	9.1	10.5	11.8	12.1	10.9	11.3
720	5	8.0	8.8	9.6	10.0	9.7	10.3	9.9	10.3	10.1	9.5	9.4	8.2	9.1	10.5	11.8	12.1	10.9	11.3

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L G R O U P	S E X	TEST WEEK																			
		27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	63	65
721	F	8.3	10.4	---	11.6	10.5	11.1	11.6	10.9	10.9	12.3	10.4	9.4	11.7	11.6	11.8	11.2	10.9	10.4	10.7	10.8
722	F	8.3	10.4	---	11.6	10.5	11.1	11.6	10.9	10.9	12.3	10.4	9.4	11.7	11.6	11.8	11.2	10.9	10.4	10.7	10.8
723	F	8.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
724	F	7.3	10.2	8.5	9.5	8.9	9.6	9.9	10.4	10.5	9.2	9.3	10.1	10.2	10.0	11.2	10.6	10.4	10.3	9.9	10.4
725	F	7.3	10.2	8.5	9.5	8.9	9.6	9.9	10.4	10.5	9.2	9.3	10.1	10.2	10.0	11.2	10.6	10.4	10.3	9.9	10.4
726	F	7.3	10.2	8.5	9.5	8.9	9.6	9.9	10.4	10.5	9.2	9.3	10.1	10.2	10.0	11.2	10.6	10.4	10.3	9.9	10.4
727	F	8.7	9.6	9.5	9.4	9.6	10.4	10.6	11.0	10.3	6.0	9.5	9.7	10.7	11.2	11.1	10.9	10.4	10.1	10.1	11.0
728	F	8.7	9.6	9.5	9.4	9.6	10.4	10.6	11.0	10.3	6.0	9.5	9.7	10.7	11.2	11.1	10.9	10.4	10.1	10.1	11.0
729	F	8.7	9.6	9.5	9.4	9.6	10.4	10.6	11.0	10.3	6.0	9.5	9.7	10.7	11.2	11.1	10.9	10.4	10.1	10.1	11.0
730	F	8.6	9.3	9.3	9.3	9.1	9.7	10.0	10.3	10.0	8.2	9.1	9.1	10.0	10.4	10.1	10.4	9.8	10.2	9.6	9.6
731	F	8.6	9.3	9.3	9.3	9.1	9.7	10.0	10.3	10.0	8.2	9.1	9.1	10.0	10.4	10.1	10.4	9.8	10.2	9.6	9.6
732	F	9.9	9.9	10.0	10.3	10.6	10.6	10.4	11.1	10.7	10.1	9.9	10.1	10.7	10.7	11.3	11.1	11.4	10.8	10.9	10.9
733	F	9.9	9.9	10.0	10.3	10.6	10.6	10.4	11.1	10.7	10.1	9.9	10.1	10.7	10.7	11.3	11.1	11.4	10.8	10.9	10.9
734	F	9.9	9.9	10.0	10.3	10.6	10.6	10.4	11.1	10.7	10.1	9.9	10.1	10.7	10.7	11.3	11.1	11.4	10.8	10.9	10.9
735	F	9.9	9.9	10.0	10.3	10.6	10.6	10.4	11.1	10.7	10.1	9.9	10.1	10.7	10.7	11.3	11.1	11.4	10.8	10.9	10.9
736	F	8.8	9.6	10.5	10.6	9.9	10.4	10.7	10.8	10.2	7.2	10.6	9.7	10.7	10.9	10.8	10.8	9.6	10.2	9.8	10.3
737	F	8.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
738	F	8.8	9.6	10.5	10.6	9.9	10.4	10.7	10.8	10.2	7.2	10.6	9.7	10.7	10.9	10.8	10.8	9.6	10.2	9.8	10.3
739	F	9.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
740	F	9.2	9.8	9.8	10.4	10.6	10.5	11.5	11.7	11.0	8.2	11.9	10.1	11.3	11.6	11.7	11.6	10.9	10.5	10.9	10.6
741	F	9.2	9.8	9.8	10.4	10.6	10.5	11.5	11.7	11.0	8.2	11.9	10.1	11.3	11.6	11.7	11.6	10.9	10.5	10.9	10.6
742	F	8.2	9.8	10.0	9.4	9.6	9.8	10.4	10.6	10.1	11.3	7.1	9.6	10.2	10.9	10.3	10.3	9.9	9.1	9.2	9.6
743	F	8.2	9.8	10.0	9.4	9.6	9.8	10.4	10.6	10.1	11.3	7.1	9.6	10.2	10.9	10.3	10.3	9.9	9.1	9.2	9.6
744	F	8.2	9.8	10.0	9.4	9.6	9.8	10.4	10.6	10.1	11.3	7.1	9.6	10.2	10.9	10.3	10.3	9.9	9.1	9.2	9.6
745	F	8.8	9.7	9.5	10.0	9.6	10.7	10.9	11.2	10.4	12.9	9.6	9.4	10.3	10.9	10.8	10.5	11.1	10.3	10.2	10.6
746	F	8.8	9.7	9.5	10.0	9.6	10.7	10.9	11.2	10.4	12.9	9.6	9.4	10.3	10.9	10.8	10.5	11.1	10.3	10.2	10.6
747	F	8.8	9.7	9.5	10.0	9.6	10.7	10.9	11.2	10.4	12.9	9.6	9.4	10.3	10.9	10.8	10.5	11.1	10.3	10.2	10.6
748	F	8.4	9.0	9.5	9.7	10.1	10.4	10.4	11.0	10.6	11.5	9.6	9.5	10.7	10.6	10.8	10.4	9.6	9.6	9.4	10.1
749	F	8.4	9.0	9.5	9.7	10.1	10.4	10.4	11.0	10.6	11.5	9.6	9.5	10.7	10.6	10.8	10.4	9.6	9.6	9.4	10.1
750	F	8.4	9.0	9.5	9.7	10.1	10.4	10.4	11.0	10.6	11.5	9.6	9.5	10.7	10.6	10.8	10.4	9.6	9.6	9.4	10.1

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T M A L N O P	T R G R S U F X	TEST WEEK																103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101
1	M	16.9	15.5	15.8	14.4	17.0	16.1	16.6	17.6	17.5	19.2	17.4	18.2	17.5	18.3	17.8	16.7	16.9	16.0
2	M	16.9	15.5	15.8	14.4	17.0	16.1	16.6	17.6	17.5	19.2	17.4	18.2	17.5	18.3	17.8	16.7	16.9	16.0
3	M	16.9	15.5	15.8	14.4	17.0	16.1	16.6	17.6	17.5	19.2	17.4	18.2	17.5	18.3	17.8	16.7	16.9	16.0
4	M	16.9	15.5	15.8	14.4	17.0	16.1	16.6	17.6	17.5	19.2	17.4	18.2	17.5	18.3	17.8	16.7	16.9	16.0
5	M	13.1	11.6	16.0	14.3	13.3	13.4	12.3	12.9	11.1	14.7	13.4	13.7	15.7	13.9	13.3	15.3	12.4	13.1
6	M	17.3	16.2	16.5	16.7	16.3	17.5	16.5	15.1	16.6	18.0	17.4	18.2	17.6	17.5	14.9	21.4	19.9	16.1
7	M	17.3	16.2	16.5	16.7	16.3	17.5	16.5	15.1	16.6	18.0	17.4	18.2	17.6	17.5	14.9	21.4	19.9	16.1
8	M	17.3	16.2	16.5	16.7	16.3	17.5	16.5	15.1	16.6	18.0	17.4	18.2	17.6	17.5	14.9	21.4	19.9	16.1
9	M	17.3	16.2	16.5	16.7	16.3	17.5	16.5	15.1	16.6	18.0	17.4	18.2	17.6	17.5	14.9	21.4	19.9	16.1
10	M	17.7	16.4	17.7	17.9	18.3	17.9	17.1	17.9	17.3	18.9	17.7	17.6	18.4	17.0	16.7	16.3	16.1	15.9
11	M	17.7	16.4	17.7	17.9	18.3	17.9	17.1	17.9	17.3	18.9	17.7	17.6	18.4	17.0	16.7	16.3	16.1	15.9
12	M	17.7	16.4	17.7	17.9	18.3	17.9	17.1	17.9	17.3	18.9	17.7	17.6	18.4	17.0	16.7	16.3	16.1	15.9
13	M	17.1	16.1	16.7	16.7	16.6	16.4	16.6	16.1	15.9	16.9	16.4	15.6	15.6	14.9	13.4	11.9	10.9	10.3
14	M	17.1	16.1	16.7	16.7	16.6	16.4	16.6	16.1	15.9	16.9	16.4	15.6	15.6	14.9	13.4	11.9	10.9	10.3
15	M	17.1	16.1	16.7	16.7	16.6	16.4	16.6	16.1	15.9	16.9	16.4	15.6	15.6	14.9	13.4	11.9	10.9	10.3
16	M	18.0	17.1	18.0	17.0	16.9	17.7	17.7	17.9	16.6	19.4	17.6	15.4	15.1	15.9	15.7	15.3	15.9	13.6
17	M	18.0	17.1	18.0	17.0	16.9	17.7	17.7	17.9	16.6	19.4	17.6	15.4	15.1	15.9	15.7	15.3	15.9	13.6
18	M	18.0	17.1	18.0	17.0	16.9	17.7	17.7	17.9	16.6	19.4	17.6	15.4	15.1	15.9	15.7	15.3	15.9	13.6
19	M	18.0	17.1	18.0	17.0	16.9	17.7	17.7	17.9	16.6	19.4	17.6	15.4	15.1	15.9	15.7	15.3	15.9	13.6
20	M	18.0	17.1	18.0	17.0	16.9	17.7	17.7	17.9	16.6	19.4	17.6	15.4	15.1	15.9	15.7	15.3	15.9	13.6
21	M	17.7	15.9	17.1	16.7	16.6	17.7	16.7	17.7	16.7	17.7	17.7	17.6	18.1	17.6	16.9	16.4	15.1	15.4
22	M	15.9	15.1	16.4	15.6	14.1	17.0	16.4	16.1	16.2	17.3	16.5	16.4	16.4	16.3	16.6	16.2	15.7	16.2
23	M	15.9	15.1	16.4	15.6	14.1	17.0	16.4	16.1	16.2	17.3	16.5	16.4	16.4	16.3	16.6	16.2	15.7	16.2
24	M	15.9	15.1	16.4	15.6	14.1	17.0	16.4	16.1	16.2	17.3	16.5	16.4	16.4	16.3	16.6	16.2	15.7	16.2
25	M	15.6	15.9	15.2	15.4	15.7	15.9	16.1	15.4	14.3	14.4	15.2	14.6	15.7	15.5	15.4	15.9	15.4	15.5
26	M	15.6	15.9	15.2	15.4	15.7	15.9	16.1	15.4	14.3	14.4	15.2	14.6	15.7	15.5	15.4	15.9	15.4	15.5
27	M	15.6	15.9	15.2	15.4	15.7	15.9	16.1	15.4	14.3	14.4	15.2	14.6	15.7	15.5	15.4	15.9	15.4	15.5
28	M	15.9	14.9	14.6	14.2	15.3	15.3	14.5	15.6	15.8	15.8	13.6	13.6	12.3	12.3	12.3	12.3	10.7	8.0
29	M	15.9	14.9	14.6	14.2	15.3	15.3	14.5	15.6	15.8	15.8	13.6	13.6	12.3	12.3	12.3	12.3	10.7	8.0
30	M	15.9	14.9	14.6	14.2	15.3	15.3	14.5	15.6	15.8	15.8	13.6	13.6	12.3	12.3	12.3	12.3	10.7	8.0
31	M	15.9	15.9	15.3	15.4	15.7	15.0	15.0	11.2	11.4	16.6	16.8	16.4	16.2	16.2	16.2	16.2	16.2	16.2
32	M	15.9	15.9	15.3	15.4	15.7	15.0	15.0	11.2	11.4	16.6	16.8	16.4	16.2	16.2	16.2	16.2	16.2	16.2
33	M	15.9	15.9	15.3	15.4	15.7	15.0	15.0	11.2	11.4	16.6	16.8	16.4	16.2	16.2	16.2	16.2	16.2	16.2
34	M	16.3	15.1	16.4	15.9	16.0	15.5	16.0	15.3	15.8	15.3	15.3	14.6	12.8	11.2	16.0	15.6	13.0	14.1
35	M	16.3	15.1	16.4	15.9	16.0	15.5	16.0	15.3	15.8	15.3	15.3	14.6	12.8	11.2	16.0	15.6	13.0	14.1
36	M	16.3	15.1	16.4	15.9	16.0	15.5	16.0	15.3	15.8	15.3	15.3	14.6	12.8	11.2	16.0	15.6	13.0	14.1
37	M	17.1	17.9	16.9	16.0	16.6	16.9	15.9	16.1	16.1	16.8	12.5	9.5	9.1	16.4	18.3	19.0	17.6	17.4
38	M	17.1	17.9	16.9	16.0	16.6	16.9	15.9	16.1	16.1	16.8	12.5	9.5	9.1	16.4	18.3	19.0	17.6	17.4
39	M	17.1	17.9	16.9	16.0	16.6	16.9	15.9	16.1	16.1	16.8	12.5	9.5	9.1	16.4	18.3	19.0	17.6	17.4
40	M	15.5	14.1	14.4	14.7	14.3	15.4	14.6	14.1	14.3	15.3	14.7	14.7	15.0	14.6	14.6	13.9	14.2	13.6

--- NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

ANIMAL IDENTIFICATION	SEX	TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
41	M	15.5	14.1	14.4	14.7	14.3	15.4	14.6	14.1	14.3	15.3	14.7	14.7	15.0	14.6	14.6	13.9	14.2	13.6	14.0	14.3
42	M	15.5	14.1	14.4	14.7	14.3	15.4	14.6	14.1	14.3	15.3	14.7	14.7	15.0	14.6	14.6	13.9	14.2	13.6	14.0	14.3
43	M	14.4	14.4	17.2	15.9	15.3	15.8	14.6	14.6	15.9	16.1	15.5	12.6	16.0	15.0	15.1	14.7	13.7	12.1	10.6	9.9
44	M	14.4	14.4	17.2	15.9	15.3	15.8	14.6	14.6	15.9	16.1	15.5	12.6	16.0	15.0	15.1	14.7	13.7	12.1	10.6	9.9
45	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
46	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
47	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
48	M	19.3	17.7	18.3	17.9	18.7	18.9	18.4	18.4	17.4	20.0	19.1	18.4	18.3	18.5	18.1	16.7	12.4	11.0	9.0	2.0
49	M	16.8	16.4	16.7	16.1	16.7	16.6	16.6	15.6	16.2	17.0	16.3	15.4	15.6	14.8	14.8	12.8	14.6	13.4	15.1	15.1
50	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
51	M	16.8	16.4	16.7	16.1	16.7	16.6	16.6	15.6	16.2	17.0	16.3	15.4	15.6	14.8	14.8	12.8	14.6	13.4	15.1	15.1
52	M	15.9	15.0	14.8	14.7	15.0	15.7	15.4	13.8	13.2	11.1	17.4	16.6	16.6	16.0	14.1	12.7	11.0	6.5	14.4	14.9
53	M	15.9	15.0	14.8	14.7	15.0	15.7	15.4	13.8	13.2	11.1	---	---	---	---	---	---	---	---	---	---
54	M	15.9	15.0	14.8	14.7	15.0	15.7	15.4	13.8	13.2	11.1	---	---	---	---	---	---	---	---	---	---
55	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
56	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
57	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
58	M	16.9	16.9	16.9	15.5	16.6	16.1	12.9	10.7	16.9	18.9	19.7	19.6	20.0	16.7	14.9	6.7	---	---	---	---
59	M	16.9	16.9	16.9	15.5	16.6	16.1	12.9	10.7	---	---	---	---	---	---	---	---	---	---	---	---
60	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
61	M	15.9	14.1	15.2	15.0	15.7	15.8	12.7	16.0	15.8	15.8	15.4	15.5	13.8	11.5	15.1	12.3	15.6	13.4	14.5	14.1
62	M	15.9	14.1	15.2	15.0	15.7	15.8	12.7	16.0	15.8	15.8	15.4	15.5	13.8	11.5	---	---	---	---	---	---
63	M	15.9	14.1	15.2	15.0	15.7	15.8	12.7	16.0	15.8	15.8	15.4	15.5	13.8	11.5	---	---	---	---	---	---
64	M	15.8	15.0	15.1	15.4	15.3	14.9	15.2	15.9	14.9	14.9	11.3	---	---	---	---	---	---	---	---	---
65	M	15.8	15.0	15.1	15.4	15.3	14.9	15.2	15.9	14.9	14.9	11.3	15.9	15.5	15.2	14.9	16.7	15.2	14.1	13.9	13.3
66	M	15.8	15.0	15.1	15.4	15.3	14.9	15.2	15.9	14.9	14.9	11.3	15.9	15.5	15.2	14.9	16.7	15.2	14.1	13.9	13.3
67	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
69	M	19.1	17.0	18.9	17.9	18.0	18.9	17.9	19.3	18.9	20.0	20.0	20.1	20.6	20.3	16.6	0.6	---	---	---	---
70	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
71	M	15.5	15.9	16.9	15.6	16.1	15.6	14.3	17.6	16.9	18.8	16.6	15.6	16.1	13.5	10.1	4.0	---	---	---	---
72	M	15.5	15.9	16.9	15.6	16.1	15.6	14.3	17.6	16.9	18.8	16.6	15.6	16.1	13.5	10.1	4.0	7.1	---	---	---
73	M	15.2	14.3	15.5	14.9	14.6	14.4	13.9	15.0	14.1	16.0	15.0	15.0	11.2	16.7	16.1	16.9	14.3	14.3	13.3	14.5
74	M	15.2	14.3	15.5	14.9	14.6	14.4	13.9	15.0	14.1	16.0	15.0	15.0	11.2	16.7	16.1	16.9	---	---	---	---
75	M	15.2	14.3	15.5	14.9	14.6	14.4	13.9	15.0	14.1	16.0	15.0	15.0	11.2	16.7	16.1	16.9	14.3	14.3	13.3	14.5
76	F	12.2	10.7	12.8	12.0	12.4	14.7	12.0	7.6	13.7	14.9	13.6	14.1	14.5	13.2	13.5	13.2	13.0	12.6	13.9	10.9
77	F	12.2	10.7	12.8	12.0	12.4	14.7	12.0	7.6	13.7	14.9	13.6	14.1	14.5	13.2	13.5	13.2	13.0	12.6	13.9	10.9
78	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
79	F	11.8	11.9	11.9	12.9	13.0	13.1	11.9	10.4	11.0	10.9	10.7	10.6	---	---	---	---	---	---	---	---
80	F	11.8	11.9	11.9	12.9	13.0	13.1	11.9	10.4	11.0	10.9	10.7	10.6	13.9	11.5	13.7	13.9	12.8	12.9	15.6	10.4

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

ANIMAL	SEX	TEST WEEK																			
		57	59	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
81	F	11.8	11.9	11.9	12.9	13.0	13.1	11.9	10.4	11.0	10.9	10.7	10.6	13.9	11.5	13.7	13.9	12.8	12.9	15.6	10.4
82	F	11.9	11.7	12.0	11.3	10.9	12.5	12.5	12.4	12.5	14.0	13.6	12.7	13.6	13.2	13.3	13.7	12.7	12.9	12.4	12.2
83	F	11.9	11.7	12.0	11.3	10.9	12.5	12.5	12.4	12.5	14.0	13.6	12.7	13.6	13.2	13.3	13.7	12.7	12.9	12.4	12.2
84	F	11.9	11.7	12.0	11.3	10.9	12.5	12.5	12.4	12.5	14.0	13.6	12.7	13.6	13.2	13.3	13.7	12.7	12.9	12.4	12.2
85	F	12.4	11.3	12.0	11.0	11.7	11.9	12.6	12.0	12.0	13.0	12.3	12.6	13.7	12.9	12.0	12.9	11.6	11.9	12.1	10.3
86	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
87	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
88	F	9.7	8.9	9.1	11.1	11.0	9.4	8.3	11.0	13.4	14.0	10.9	12.7	12.1	10.7	12.1	11.6	12.6	---	---	---
89	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
90	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
91	F	11.0	10.7	11.7	10.6	12.0	12.5	11.7	11.8	11.8	13.0	11.8	11.0	12.7	11.9	12.1	12.2	11.5	11.0	11.6	11.5
92	F	11.0	10.7	11.7	10.6	12.0	12.5	11.7	11.8	11.8	13.0	11.8	11.0	12.7	11.9	12.1	12.2	11.5	11.0	11.6	11.5
93	F	11.0	10.7	11.7	10.6	12.0	12.5	11.7	11.8	11.8	13.0	11.8	11.0	12.7	11.9	12.1	12.2	11.5	11.0	11.6	11.5
94	F	12.6	11.8	12.7	12.8	12.9	12.6	13.9	13.5	12.9	14.3	14.1	12.9	14.8	13.1	13.6	13.1	12.1	13.2	14.3	13.7
95	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
96	F	12.6	11.8	12.7	12.8	12.9	12.6	13.9	13.5	12.9	14.3	14.1	12.9	14.8	13.1	13.6	13.1	12.1	13.2	14.3	13.7
97	F	12.5	10.5	11.6	8.1	4.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
98	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
99	F	12.5	10.6	11.6	8.1	4.6	11.4	12.0	11.6	13.4	13.6	13.0	12.9	13.9	14.0	14.0	15.0	12.7	13.7	13.7	13.9
100	F	12.7	11.8	12.9	12.0	12.6	12.6	13.9	12.5	12.6	13.6	9.4	8.6	8.8	---	---	---	---	---	---	---
101	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102	F	12.7	11.8	12.9	12.0	12.6	12.6	13.9	12.5	12.6	13.6	9.4	8.6	8.8	11.6	14.3	14.9	12.7	11.6	14.0	13.7
103	F	12.5	10.9	12.3	11.3	12.1	12.2	12.1	11.1	11.4	12.4	12.1	12.8	13.2	11.9	12.1	12.1	10.9	8.6	6.1	---
104	F	12.5	10.9	12.3	11.3	12.1	12.2	12.1	11.1	11.4	12.4	12.1	12.8	13.2	11.9	12.1	12.1	10.9	8.6	6.1	11.3
105	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106	F	12.2	11.0	10.9	9.8	8.5	12.6	12.3	10.1	9.9	10.0	9.4	9.7	11.5	10.8	---	---	---	---	---	---
107	F	12.2	11.0	10.9	9.8	8.5	12.6	12.3	10.1	9.9	10.0	9.4	9.7	11.5	10.8	12.6	12.9	11.9	12.9	13.9	13.1
108	F	12.2	11.0	10.9	9.8	8.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
109	F	14.4	12.6	13.3	12.6	12.9	12.9	13.1	12.5	12.4	13.8	12.9	13.6	11.4	11.1	12.8	11.2	---	---	---	---
110	F	14.4	12.6	13.3	12.6	12.9	12.9	13.1	12.5	12.4	13.8	12.9	13.6	11.4	11.1	12.8	11.2	4.1	4.4	7.2	---
111	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
112	F	10.0	10.2	10.2	9.8	11.0	10.0	10.3	9.8	11.3	12.3	12.0	11.7	12.2	12.4	12.0	11.1	10.7	11.3	10.6	9.8
113	F	10.0	10.2	10.2	9.8	11.0	10.0	10.3	9.8	11.3	12.3	12.0	11.7	12.2	12.4	12.0	11.1	10.7	11.3	10.6	9.8
114	F	10.0	10.2	10.2	9.8	11.0	10.0	10.3	9.8	11.3	12.3	12.0	11.7	12.2	12.4	12.0	11.1	10.7	11.3	10.6	9.8
115	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
116	F	11.8	10.4	12.4	11.5	11.9	12.2	11.1	11.6	11.7	12.9	11.6	12.3	13.4	13.0	12.9	12.7	12.4	12.4	12.5	11.4
117	F	11.8	10.4	12.4	11.5	11.9	12.2	11.1	11.6	11.7	12.9	11.6	12.3	13.4	13.0	12.9	12.7	12.4	12.4	12.5	11.4
118	F	13.1	11.6	12.8	13.3	13.4	13.4	14.1	12.6	13.3	13.5	13.5	13.6	13.4	12.9	12.9	11.6	9.5	7.1	---	---
119	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
120	F	13.1	11.6	12.8	13.3	13.4	13.4	14.1	12.6	13.3	13.5	13.5	13.6	13.4	12.9	12.9	11.6	9.5	7.1	13.4	12.1

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T I T M R A L G R N O U E	S E X	TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
121	F	11.8	11.2	11.3	11.4	11.4	12.1	10.9	11.0	12.0	12.2	12.4	11.6	11.5	12.0	12.1	12.0	10.5	11.1	11.6	10.4
122	F	11.8	11.2	11.3	11.4	11.4	12.1	10.9	11.0	12.0	12.2	12.4	11.6	11.5	12.0	12.1	12.0	10.5	11.1	11.6	10.4
123	F	11.8	11.2	11.3	11.4	11.4	12.1	10.9	11.0	12.0	12.2	12.4	11.6	11.5	12.0	12.1	12.0	10.5	11.1	11.6	10.4
124	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
125	F	14.8	12.3	12.9	11.9	12.7	12.8	13.3	12.8	12.8	14.6	13.9	13.4	13.8	12.2	13.0	13.4	12.9	11.9	8.4	5.5
126	F	14.8	12.3	12.9	11.9	12.7	12.8	13.3	12.8	12.8	14.6	13.9	13.4	13.8	12.2	13.0	13.4	12.9	11.9	8.4	5.5
127	F	12.6	10.9	10.9	12.1	12.4	13.0	12.8	11.9	12.1	13.0	13.0	12.3	12.2	12.5	13.1	13.9	12.7	13.1	13.3	11.8
128	F	12.6	10.9	10.9	12.1	12.4	13.0	12.8	11.9	12.1	13.0	13.0	12.3	12.2	12.5	13.1	13.9	12.7	13.1	13.3	11.8
129	F	12.6	10.9	10.9	12.1	12.4	13.0	12.8	11.9	12.1	13.0	13.0	12.3	12.2	12.5	13.1	13.9	12.7	13.1	13.3	11.8
130	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
131	F	12.6	11.1	12.2	12.8	13.5	13.4	13.4	11.8	12.2	13.6	13.4	13.2	13.3	13.2	12.9	12.9	10.5	6.1	7.6	10.9
132	F	12.6	11.1	12.2	12.8	13.5	13.4	13.4	11.8	12.2	13.6	13.4	13.2	13.3	13.2	12.9	12.9	10.5	6.1	7.6	10.9
133	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
134	F	11.9	9.1	12.9	13.0	12.8	13.9	13.2	12.0	8.1	9.4	12.0	14.5	10.6	10.9	12.1	12.3	10.1	11.2	---	---
135	F	11.9	9.1	12.9	13.0	12.8	13.9	13.2	12.0	8.1	9.4	12.0	14.5	10.6	10.9	12.1	12.3	10.1	11.2	11.9	12.8
136	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
137	F	14.1	12.4	13.6	14.0	13.1	15.6	15.0	13.6	13.3	15.9	13.7	14.4	13.9	13.1	12.4	8.4	8.3	---	---	---
138	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
139	F	12.6	11.3	12.2	11.6	11.7	12.1	12.4	11.6	12.3	12.3	13.0	11.7	11.9	11.6	10.5	7.0	9.9	---	---	---
140	F	12.6	11.3	12.2	11.6	11.7	12.1	12.4	11.6	12.3	12.3	13.0	11.7	11.9	11.6	10.5	7.0	9.9	12.9	12.9	13.9
141	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
142	F	11.4	7.9	9.9	7.7	9.6	11.9	10.7	11.3	---	---	---	---	---	---	---	---	---	---	---	---
143	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
144	F	11.4	7.9	9.9	7.7	9.6	11.9	10.7	11.3	11.1	11.3	13.0	12.9	15.0	16.9	16.0	16.7	14.6	10.1	13.3	11.0
145	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
146	F	12.0	9.1	11.3	11.4	11.8	10.1	11.1	13.2	13.9	14.9	13.9	13.4	12.4	14.0	14.4	13.6	14.5	13.3	12.8	11.7
147	F	12.0	9.1	11.3	11.4	11.8	10.1	11.1	13.2	13.9	14.9	13.9	13.4	12.4	14.0	14.4	13.6	14.5	13.3	12.8	---
148	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
149	F	12.1	10.9	13.6	12.2	12.0	11.9	12.4	11.4	9.9	10.6	12.4	13.5	13.9	12.3	13.9	12.2	12.1	12.6	12.3	12.7
150	F	12.1	10.9	13.6	12.2	12.0	11.9	12.4	11.4	9.9	10.6	12.4	13.5	13.9	12.3	13.9	12.2	12.1	12.6	12.3	12.7
151	M	15.7	14.9	14.6	16.0	15.1	14.1	14.4	15.7	15.8	14.9	16.2	16.6	16.7	16.4	16.4	16.1	15.2	14.9	15.4	13.8
152	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
153	M	15.7	14.9	14.6	16.0	15.1	14.1	14.4	15.7	15.8	14.9	16.2	16.6	16.7	16.4	16.4	16.1	15.2	14.9	15.4	13.8
154	M	15.9	14.6	14.4	14.4	15.0	15.3	15.1	12.1	13.1	10.9	---	---	---	---	---	---	---	---	---	---
155	M	15.9	14.6	14.4	14.4	15.0	15.3	15.1	12.1	13.1	10.9	17.3	19.1	18.3	19.0	19.7	19.4	18.1	18.4	18.3	16.7
156	M	15.9	14.6	14.4	14.4	15.0	15.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
157	M	16.4	15.4	15.4	14.5	16.0	16.0	16.0	14.1	15.8	14.4	14.6	15.3	15.1	15.2	15.4	15.4	15.4	13.8	11.5	5.2
158	M	16.4	15.4	15.4	14.5	16.0	16.0	16.0	14.1	15.8	14.4	14.6	15.3	15.1	15.2	15.4	15.4	15.4	13.8	11.5	5.2
159	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
160	M	16.0	15.9	14.8	15.9	15.6	16.0	16.1	15.4	16.7	13.9	12.4	9.6	8.3	11.2	12.1	10.0	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T E M A L I G R O S D O U P X	TEST WEEK																				
	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104	
161 2 M	16.0	15.9	14.8	15.9	15.6	16.0	16.1	15.4	16.7	13.9	12.4	9.6	8.3	11.2	---	---	---	---	---	---	
162 2 M	16.0	15.9	14.8	15.9	15.6	16.0	16.1	15.4	16.7	13.9	12.4	9.6	8.3	11.2	12.1	10.0	16.3	15.4	16.0	15.3	
163 2 M	16.6	16.4	16.6	15.6	17.1	16.4	16.9	16.9	16.9	16.6	15.4	15.8	14.3	11.0	11.9	26.0	14.0	14.6	15.4	14.3	
164 2 M	16.6	16.4	16.6	15.6	17.1	16.4	16.9	16.9	16.9	16.6	15.4	15.8	14.3	11.0	11.9	---	---	---	---	---	
165 2 M	16.3	16.4	17.4	17.0	17.1	16.9	17.6	16.9	16.1	16.0	17.0	15.6	17.1	15.9	13.8	11.5	9.4	9.6	12.5	15.1	
167 2 M	16.3	16.4	17.4	17.0	17.1	16.9	17.6	16.9	16.1	16.0	17.0	15.6	17.1	15.9	13.8	11.5	9.4	9.6	12.5	---	
168 2 M	15.3	15.0	14.0	15.3	14.7	14.6	14.5	15.4	15.1	14.3	14.3	13.8	12.3	14.7	12.3	10.7	---	---	---	---	
169 2 M	15.3	15.0	14.0	15.3	14.7	14.6	14.5	15.4	15.1	14.3	14.3	13.8	12.3	14.7	12.3	10.7	13.1	12.2	9.6	8.7	
170 2 M	15.3	15.0	14.0	15.3	14.7	14.6	14.5	15.4	15.1	14.3	14.3	13.8	12.3	14.7	12.3	10.7	13.1	12.2	9.6	8.7	
171 2 M	15.3	15.0	14.0	15.3	14.7	14.6	14.5	15.4	15.1	14.3	14.3	13.8	12.3	14.7	12.3	10.7	13.1	12.2	9.6	8.7	
172 2 M	16.9	16.9	16.9	15.9	15.7	16.1	16.5	16.4	16.1	15.7	16.1	15.5	16.1	15.5	15.3	15.6	16.1	12.9	7.2	8.5	
173 2 M	16.9	16.9	16.9	15.9	15.7	16.1	16.5	16.4	16.1	15.7	16.1	15.5	16.1	15.5	15.3	15.6	16.1	12.9	7.2	8.5	
174 2 M	15.6	15.5	15.4	14.8	14.6	14.8	14.5	15.4	15.4	15.3	15.0	14.8	16.1	15.6	16.1	14.7	14.0	14.4	14.2	15.9	
175 2 M	15.6	15.5	15.4	14.8	14.6	14.8	14.5	15.4	15.4	15.3	15.0	14.8	16.1	15.6	16.1	14.7	14.0	14.4	14.2	15.9	
176 2 M	15.8	15.1	15.3	15.8	15.7	15.4	15.5	16.0	15.3	15.4	15.6	16.1	16.5	15.6	15.9	14.6	13.0	11.4	9.9	12.1	
177 2 M	15.8	15.1	15.3	15.8	15.7	15.4	15.5	16.0	15.3	15.4	15.6	16.1	16.5	15.6	15.9	14.6	13.0	11.4	9.9	12.1	
178 2 M	15.2	15.1	15.9	14.9	15.6	16.4	16.9	15.2	13.8	12.9	11.4	10.8	18.6	16.7	17.6	17.7	18.3	17.0	17.1	15.4	
179 2 M	15.2	15.1	15.9	14.9	15.6	16.4	16.9	15.2	13.8	12.9	11.4	10.8	18.6	16.7	17.6	17.7	18.3	17.0	17.1	15.4	
180 2 M	15.2	15.1	15.9	14.9	15.6	16.4	16.9	15.2	13.8	12.9	11.4	10.8	18.6	16.7	17.6	17.7	18.3	17.0	17.1	15.4	
181 2 M	17.4	18.0	16.9	18.0	17.3	16.4	18.1	18.4	16.6	16.3	15.5	15.9	16.6	16.8	17.5	17.6	16.4	15.1	15.0	15.2	
182 2 M	17.4	18.0	16.9	18.0	17.3	16.4	18.1	18.4	16.6	16.3	15.5	15.9	16.6	16.8	17.5	17.6	16.4	15.1	15.0	15.2	
183 2 M	17.4	18.0	16.9	18.0	17.3	16.4	18.1	18.4	16.6	16.3	15.5	15.9	16.6	16.8	17.5	17.6	16.4	15.1	15.0	15.2	
184 2 M	17.0	15.1	16.0	16.2	13.9	11.7	---	16.4	13.5	18.0	---	---	10.3	---	---	---	---	---	---	---	
185 2 M	17.0	15.1	16.0	16.2	13.9	11.7	---	16.4	13.5	18.0	---	---	10.3	---	---	---	---	---	---	---	
186 2 M	17.0	15.1	16.0	16.2	13.9	11.7	---	16.4	13.5	18.0	---	---	10.3	---	---	---	---	---	---	---	
187 2 M	17.3	17.0	18.1	16.6	16.6	16.3	17.0	17.6	16.7	16.9	16.4	17.1	16.9	17.0	18.1	17.4	18.3	16.9	18.4	16.9	
188 2 M	17.3	17.0	18.1	16.6	16.6	16.3	17.0	17.6	16.7	16.9	16.4	17.1	16.9	17.0	18.1	17.4	18.3	16.9	18.4	16.9	
189 2 M	17.3	17.0	18.1	16.6	16.6	16.3	17.0	17.6	16.7	16.9	16.4	17.1	16.9	17.0	18.1	17.4	18.3	16.9	18.4	16.9	
190 2 M	17.3	17.0	18.1	16.6	16.6	16.3	17.0	17.6	16.7	16.9	16.4	17.1	16.9	17.0	18.1	17.4	18.3	16.9	18.4	16.9	
191 2 M	17.3	17.0	18.1	16.6	16.6	16.3	17.0	17.6	16.7	16.9	16.4	17.1	16.9	17.0	18.1	17.4	18.3	16.9	18.4	16.9	
192 2 M	14.5	14.1	15.2	15.1	13.4	12.1	12.1	8.9	---	---	---	---	---	---	---	---	---	---	---	---	
193 2 M	14.5	14.1	15.2	15.1	13.4	12.1	12.1	8.9	---	---	---	---	---	---	---	---	---	---	---	---	
194 2 M	14.5	14.1	15.2	15.1	13.4	12.1	12.1	8.9	---	---	---	---	---	---	---	---	---	---	---	---	
195 2 M	14.8	13.9	15.1	13.9	15.0	14.3	15.4	14.9	15.4	15.3	15.5	15.9	14.2	14.5	14.5	14.4	13.3	11.6	8.8	14.1	
196 2 M	14.8	13.9	15.1	13.9	15.0	14.3	15.4	14.9	15.4	15.3	15.5	15.9	14.2	14.5	14.5	14.4	13.3	11.6	8.8	14.1	
197 2 M	14.8	13.9	15.1	13.9	15.0	14.3	15.4	14.9	15.4	15.3	15.5	15.9	14.2	14.5	14.5	14.4	13.3	11.6	8.8	14.1	
198 2 M	14.8	13.9	15.1	13.9	15.0	14.3	15.4	14.9	15.4	15.3	15.5	15.9	14.2	14.5	14.5	14.4	13.3	11.6	8.8	14.1	
199 2 M	16.6	17.4	16.9	17.1	16.2	14.6	14.7	14.9	14.7	9.3	16.3	17.9	17.0	18.4	18.0	18.1	17.3	19.1	20.3	19.6	
200 2 M	16.6	17.4	16.9	17.1	16.2	14.6	14.7	14.9	14.7	9.3	16.3	17.9	17.0	18.4	18.0	18.1	17.3	19.1	20.3	19.6	

--- NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T M A L G R O U P S	S E X	TEST WEEK																		101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99				
201	2 M	16.6	17.4	16.9	17.1	16.2	14.6	14.7	14.9	14.7	9.3	---	---	---	---	---	---	---	---	---	---	
202	2 M	18.7	18.3	16.0	17.9	17.4	18.6	19.0	20.0	18.3	18.3	18.3	18.9	17.9	17.4	19.3	18.0	18.7	19.6	20.3	20.7	
203	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
204	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
205	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
206	2 M	16.7	16.7	17.4	16.4	16.5	15.8	13.5	---	---	---	---	---	---	---	---	---	---	---	---	---	
207	2 M	16.7	16.7	17.4	16.4	16.5	15.8	13.5	15.3	14.6	17.7	17.6	17.6	17.0	12.0	4.9	3.9	---	---	---	---	
208	2 M	19.1	17.4	18.1	18.4	---	20.1	19.4	19.0	19.1	20.0	20.4	19.0	18.1	17.9	20.6	19.6	19.0	15.6	14.0	10.7	
209	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
210	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
211	2 M	13.4	12.4	13.3	10.8	16.3	9.7	14.8	14.5	10.7	6.4	---	---	---	---	---	---	---	---	---	---	
212	2 M	13.4	12.4	13.3	10.8	16.3	9.7	14.8	14.5	10.7	6.4	13.3	14.9	13.7	13.1	15.6	15.4	13.3	13.0	7.8	---	
213	2 M	---	---	---	---	---	9.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
214	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
215	2 M	16.4	15.9	16.5	15.9	16.2	15.6	16.2	16.1	16.0	15.8	14.6	13.9	10.1	11.0	10.9	15.8	18.4	18.2	15.6	17.0	
216	2 M	16.4	15.9	16.5	15.9	16.2	15.6	16.2	16.1	16.0	15.8	14.6	13.9	10.1	11.0	10.9	15.8	18.4	18.2	15.6	17.0	
217	2 M	17.1	17.0	17.6	17.3	17.1	18.1	17.7	17.3	17.7	17.6	16.9	17.1	17.3	16.5	17.0	17.0	16.8	16.1	15.2	18.1	
218	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
219	2 M	17.1	17.0	17.6	17.3	17.1	18.1	17.7	17.3	17.7	17.6	16.9	17.1	17.3	16.5	17.0	17.0	16.8	16.1	15.2	18.1	
220	2 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
221	2 M	16.4	15.9	16.6	15.2	15.7	16.0	16.1	16.1	8.1	8.9	12.1	16.9	16.9	17.4	18.1	19.1	17.3	16.6	19.4	16.5	
222	2 M	16.4	15.9	16.6	15.2	15.7	16.0	16.1	16.1	8.1	8.9	---	---	---	---	---	---	---	---	---	---	
223	2 M	14.8	14.2	14.4	16.5	15.6	15.9	15.7	16.4	16.1	16.4	16.0	11.3	9.8	10.8	16.3	18.0	18.1	18.1	19.3	19.0	
224	2 M	14.8	14.2	14.4	16.5	15.6	15.9	15.7	16.4	16.1	16.4	16.0	11.3	9.8	10.8	---	---	---	---	---	---	
225	2 M	14.8	14.2	14.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
226	2 F	9.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
227	2 F	9.8	10.5	12.6	12.9	12.1	11.6	11.4	11.4	11.0	9.9	11.2	9.3	10.0	8.8	15.3	16.0	14.4	15.1	12.6	12.2	
228	2 F	9.8	10.5	12.6	12.9	12.1	11.6	11.4	11.4	11.0	9.9	11.2	9.3	10.0	8.8	---	---	---	---	---	---	
229	2 F	12.1	11.3	12.3	11.6	13.0	12.2	11.8	12.7	12.1	10.3	9.8	12.9	16.2	14.8	15.1	10.5	14.9	15.3	13.4	16.3	
230	2 F	12.1	11.3	12.3	11.6	13.0	12.2	11.8	12.7	12.1	10.3	9.8	12.9	16.2	14.8	15.1	10.5	---	---	---	---	
231	2 F	12.1	11.3	12.3	11.6	13.0	12.2	11.8	12.7	12.1	10.3	9.8	12.9	16.2	14.8	---	---	---	---	---	---	
232	2 F	12.4	10.7	11.0	11.3	13.2	12.8	11.9	12.3	12.7	13.1	13.5	13.1	13.3	13.0	14.0	13.0	13.2	12.6	11.3	12.0	
233	2 F	12.4	10.7	11.0	11.3	13.2	12.8	11.9	12.3	12.7	13.1	13.5	13.1	13.3	13.0	14.0	13.0	13.2	12.6	11.3	12.0	
234	2 F	12.4	10.7	11.0	11.3	13.2	12.8	11.9	12.3	12.7	13.1	13.5	13.1	13.3	13.0	14.0	13.0	13.2	12.6	11.3	12.0	
235	2 F	11.4	11.0	11.5	11.8	12.9	12.8	13.0	12.6	12.0	12.8	11.6	12.7	12.9	12.2	12.4	12.0	11.4	12.5	11.8	11.6	
236	2 F	11.4	11.0	11.5	11.8	12.9	12.8	13.0	12.6	12.0	12.8	11.6	12.7	12.9	12.2	12.4	12.0	11.4	12.5	11.8	11.6	
237	2 F	11.4	11.0	11.5	11.8	12.9	12.8	13.0	12.6	12.0	12.8	11.6	12.7	12.9	12.2	12.4	12.0	11.4	12.5	11.8	11.6	
238	2 F	13.8	12.1	13.4	12.9	12.7	13.1	14.1	11.6	12.1	12.9	13.6	12.8	12.9	13.1	12.4	12.9	12.4	13.8	12.5	11.4	
239	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
240	2 F	13.8	12.1	13.4	12.9	12.7	13.1	14.1	11.6	12.1	12.9	13.6	12.8	12.9	13.1	12.4	12.9	12.4	13.8	12.5	11.4	

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L G R O U P	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
241	2 F	8.5	6.6	8.6	8.4	10.0	10.5	11.3	13.0	14.0	14.3	14.1	13.9	14.3	14.4	14.4	14.6	14.1	14.9	13.9
242	2 F	8.5	6.6	8.6	8.4	10.0	10.5	---	---	---	---	---	---	---	---	---	---	---	---	---
243	2 F	8.5	6.6	8.6	8.4	10.0	10.5	---	---	---	---	---	---	---	---	---	---	---	---	---
244	2 F	12.6	12.6	12.3	12.6	13.3	13.4	13.1	12.3	14.0	14.1	13.9	13.4	13.7	13.4	15.3	15.1	13.3	14.6	12.7
245	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
246	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
247	2 F	12.0	11.7	11.3	12.3	13.0	11.6	13.3	11.0	12.2	12.4	12.7	13.1	13.5	12.4	12.0	10.7	9.1	11.1	12.7
248	2 F	12.0	11.7	11.3	12.3	13.0	11.6	13.3	11.0	12.2	12.4	12.7	13.1	13.5	12.4	12.0	10.7	9.1	---	---
249	2 F	12.0	11.7	11.3	12.3	13.0	11.6	13.3	11.0	12.2	12.4	12.7	13.1	13.5	12.4	12.0	10.7	9.1	---	---
250	2 F	13.1	11.9	11.9	12.1	13.1	12.8	13.0	13.0	13.0	12.3	13.1	11.4	12.6	12.0	9.6	8.9	10.6	---	---
251	2 F	13.1	11.9	11.9	12.1	13.1	12.8	13.0	13.0	13.0	12.3	13.1	11.4	12.6	12.0	9.6	8.9	10.6	12.7	14.0
252	2 F	13.1	11.9	11.9	12.1	13.1	12.8	13.0	13.0	13.0	12.3	13.1	11.4	12.6	12.0	9.6	8.9	10.6	12.7	14.0
253	2 F	14.5	12.7	12.5	12.9	13.6	12.0	14.1	12.6	12.7	14.3	12.7	13.6	13.6	13.5	13.5	13.8	13.3	12.6	12.1
254	2 F	14.5	12.7	12.5	12.9	13.6	12.0	14.1	12.6	12.7	14.3	12.7	13.6	13.6	13.5	13.5	13.8	13.3	12.6	12.1
255	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
256	2 F	14.1	13.1	12.8	12.9	12.8	12.9	13.1	12.6	11.6	12.2	12.0	7.5	12.9	13.3	16.0	11.4	16.7	15.7	13.1
257	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
258	2 F	14.1	13.1	12.8	12.9	12.8	12.9	13.1	12.6	11.6	12.2	12.0	7.5	---	---	---	---	---	---	---
259	2 F	13.0	11.8	10.4	11.7	11.9	12.2	13.6	13.0	11.5	10.6	10.2	11.4	12.5	12.4	12.3	12.0	12.7	11.7	11.2
260	2 F	13.0	11.8	10.4	11.7	11.9	12.2	13.6	13.0	11.5	10.6	10.2	11.4	12.5	12.4	12.3	12.0	12.7	11.7	11.2
261	2 F	13.0	11.8	10.4	11.7	11.9	12.2	13.6	13.0	11.5	10.6	10.2	11.4	12.5	12.4	12.3	12.0	12.7	11.7	11.2
262	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
263	2 F	10.4	9.9	10.5	8.3	9.6	12.3	12.7	12.4	11.9	13.9	14.1	13.0	14.1	13.3	12.7	13.9	13.1	12.7	14.0
264	2 F	10.4	9.9	10.5	8.3	9.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
265	2 F	12.5	11.8	12.8	12.5	13.1	12.9	14.0	12.6	12.3	12.7	12.9	13.2	13.4	13.6	12.1	12.6	12.6	12.1	14.0
266	2 F	12.5	11.8	12.8	12.5	13.1	12.9	14.0	12.6	12.3	12.7	12.9	13.2	13.4	13.6	12.1	12.6	12.6	12.1	14.0
267	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
268	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
269	2 F	12.9	12.1	12.9	12.4	13.3	13.2	13.8	13.1	12.9	13.9	13.9	13.1	14.0	13.4	10.0	8.2	15.0	15.4	14.6
270	2 F	12.9	12.1	12.9	12.4	13.3	13.2	13.8	13.1	12.9	13.9	13.9	13.1	14.0	13.4	10.0	8.2	---	---	---
271	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
272	2 F	15.3	13.4	14.7	14.9	15.3	13.9	14.7	13.7	16.3	15.6	16.3	15.9	17.4	16.3	15.0	13.7	16.9	15.7	15.0
273	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
274	2 F	13.9	11.9	12.6	12.7	13.0	12.2	14.2	12.1	12.0	12.4	13.3	15.1	13.9	14.8	13.6	13.9	12.4	11.5	13.3
275	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
276	2 F	13.9	11.9	12.6	12.7	13.0	12.2	14.2	12.1	12.0	12.4	13.3	15.1	13.9	14.8	13.6	13.9	12.4	11.5	13.3
277	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
278	2 F	12.7	12.4	12.7	13.0	13.3	13.1	13.9	12.9	14.0	14.0	14.6	14.4	13.9	13.7	12.4	12.7	13.4	15.3	17.6
279	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
280	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T R A L G R S O U P X		TEST WEEK																103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101
281	2 F	14.1	10.1	14.9	14.1	15.4	15.4	13.9	7.4	14.1	15.1	---	---	---	---	---	---	---	---
282	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
283	2 F	11.2	11.6	11.3	11.6	12.3	11.6	11.4	10.4	10.5	12.5	13.3	13.0	12.9	12.7	11.9	13.4	11.2	12.9
284	2 F	11.2	11.6	11.3	11.6	12.3	11.6	11.4	10.4	10.5	12.5	13.3	13.0	12.9	12.7	11.9	13.4	11.2	12.9
285	2 F	11.2	11.6	11.3	11.6	12.3	11.6	11.4	10.4	10.5	12.5	13.3	13.0	12.9	12.7	11.9	13.4	11.2	12.9
286	2 F	12.1	10.9	11.3	11.1	11.9	12.3	12.1	11.4	12.1	11.6	13.2	12.0	12.2	10.4	7.8	7.4	---	---
287	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
288	2 F	12.1	10.9	11.3	11.1	11.9	12.3	12.1	11.4	12.1	11.6	13.2	12.0	12.2	10.4	7.8	7.4	11.7	14.1
289	2 F	11.0	11.0	11.5	10.4	11.9	11.5	11.5	11.6	10.9	11.0	11.2	8.9	8.9	8.9	9.5	---	---	---
290	2 F	11.0	11.0	11.5	10.4	11.9	11.5	11.5	11.6	10.9	11.0	11.2	8.9	8.9	8.9	9.5	10.1	10.9	10.8
291	2 F	11.0	11.0	11.5	10.4	11.9	11.5	11.5	11.6	10.9	11.0	11.2	8.9	8.9	8.9	9.5	10.1	10.9	10.8
292	2 F	11.7	10.7	11.3	11.2	11.5	12.1	12.2	11.7	12.0	12.5	12.8	13.3	13.0	13.7	12.6	13.4	11.3	12.0
293	2 F	11.7	10.7	11.3	11.2	11.5	12.1	12.2	11.7	12.0	12.5	12.8	13.3	13.0	13.7	12.6	13.4	11.3	12.0
294	2 F	11.7	10.7	11.3	11.2	11.5	12.1	12.2	11.7	12.0	12.5	12.8	13.3	13.0	13.7	12.6	13.4	11.3	12.0
295	2 F	12.4	11.3	12.4	11.4	11.8	10.3	11.7	12.1	12.6	12.5	12.6	12.7	13.1	12.2	12.1	12.9	12.0	12.5
296	2 F	12.4	11.3	12.4	11.4	11.8	10.3	11.7	12.1	12.6	12.5	12.6	12.7	13.1	12.2	12.1	12.9	12.0	12.5
297	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
298	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
299	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
300	2 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301	3 M	17.3	17.3	17.6	16.1	17.0	17.9	15.6	17.1	17.0	16.6	18.7	18.0	18.4	17.7	18.1	17.7	17.1	15.9
302	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
303	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
304	3 M	15.8	15.2	14.6	16.1	15.6	15.7	15.6	15.0	16.8	14.1	15.6	14.1	17.0	14.9	15.4	15.5	14.1	11.8
305	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
306	3 M	15.8	15.2	14.6	16.1	15.6	15.7	15.6	15.0	16.8	14.1	15.6	14.1	17.0	14.9	15.4	15.5	14.1	11.8
307	3 M	15.6	15.1	14.4	15.5	15.4	14.8	14.8	15.4	14.9	11.9	13.2	14.6	15.4	15.3	15.1	16.0	14.9	14.5
308	3 M	15.6	15.1	14.4	15.5	15.4	14.8	14.8	15.4	14.9	11.9	13.2	14.6	15.4	15.3	15.1	16.0	14.9	14.5
309	3 M	15.6	15.1	14.4	15.5	15.4	14.8	14.8	15.4	14.9	11.9	13.2	14.6	15.4	15.3	15.1	16.0	14.9	14.5
310	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
311	3 M	16.6	16.4	16.9	15.6	18.0	17.1	17.4	18.3	17.9	18.0	18.6	19.4	19.7	18.0	18.4	16.1	---	---
312	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
313	3 M	16.1	15.3	14.6	15.9	15.4	15.6	15.7	16.5	15.4	15.7	15.2	15.3	15.1	14.7	14.6	15.1	14.6	12.6
314	3 M	16.1	15.3	14.6	15.9	15.4	15.6	15.7	16.5	15.4	15.7	15.2	15.3	15.1	14.7	14.6	15.1	14.6	12.6
315	3 M	16.1	15.3	14.6	15.9	15.4	15.6	15.7	16.5	15.4	15.7	15.2	15.3	15.1	14.7	14.6	15.1	14.6	12.6
316	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
317	3 M	18.4	16.6	16.9	16.9	17.2	16.6	18.5	16.3	16.4	15.6	9.7	---	---	---	---	---	---	---
318	3 M	18.4	16.6	16.9	16.9	17.2	16.6	18.5	16.3	16.4	15.6	9.7	17.1	18.1	17.9	17.6	19.4	17.3	16.4
319	3 M	15.9	15.8	15.7	17.3	15.5	15.7	15.6	15.6	14.3	15.9	15.9	15.6	15.2	15.4	15.6	15.4	14.6	14.9
320	3 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

ANIMAL IDENTIFICATION	SEX	TEST WEEK																			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104
3321	M	15.9	15.8	15.7	17.3	15.5	15.7	15.6	15.6	14.3	15.9	15.9	15.6	15.2	15.4	15.6	15.4	14.6	14.9	14.1	13.6
3322	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3323	M	17.6	15.4	14.9	15.9	17.1	17.7	18.3	19.0	17.6	18.7	17.6	18.3	17.7	17.3	17.0	17.1	12.0	6.1	4.3	2.0
3324	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3325	M	15.6	14.6	15.3	15.2	15.3	15.9	14.7	14.9	15.1	13.6	11.4	11.1	9.4	---	---	---	---	---	---	---
3326	M	15.6	14.6	15.3	15.2	15.3	15.9	14.7	14.9	15.1	13.6	11.4	11.1	9.4	8.1	8.4	9.3	8.7	4.0	---	---
3327	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3328	M	14.4	14.2	16.0	15.5	15.6	15.8	14.0	15.4	15.7	15.8	15.5	16.0	15.8	15.1	14.2	14.9	13.9	12.8	9.5	16.9
3329	M	14.4	14.2	16.0	15.5	15.6	15.8	14.0	15.4	15.7	15.8	15.5	16.0	15.8	15.1	14.2	14.9	13.9	12.8	9.5	---
3330	M	14.4	14.2	16.0	15.5	15.6	15.8	14.0	15.4	15.7	15.8	15.5	16.0	15.8	15.1	14.2	14.9	13.9	12.8	9.5	---
3331	M	16.1	14.9	15.8	15.0	12.1	14.9	15.4	15.0	15.6	15.1	17.3	17.9	16.7	---	---	---	---	---	---	---
3332	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3333	M	16.1	14.9	15.8	15.0	12.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3334	M	16.1	15.1	15.3	15.1	16.0	15.8	15.4	10.6	11.5	---	---	---	---	---	---	---	---	---	---	---
3335	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3336	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3337	M	16.1	15.1	15.3	15.1	16.0	15.8	15.4	10.6	11.5	17.3	18.9	20.7	19.3	19.0	19.9	18.9	17.9	17.9	19.6	16.9
3338	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3339	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3340	M	15.5	15.2	16.1	15.0	15.7	14.9	16.1	15.4	15.8	15.9	15.2	15.1	15.4	14.8	14.6	14.6	14.6	13.7	14.3	13.4
3341	M	15.5	15.2	16.1	15.0	15.7	14.9	16.1	15.4	15.8	15.9	15.2	15.1	15.4	14.8	14.6	14.6	14.6	13.7	14.3	13.4
3342	M	15.5	15.2	16.1	15.0	15.7	14.9	16.1	15.4	15.8	15.9	15.2	15.1	15.4	14.8	14.6	14.6	14.6	13.7	14.3	13.4
3343	M	16.2	16.3	16.6	14.8	10.9	11.5	14.8	17.4	15.3	15.2	---	---	---	---	---	---	---	---	---	---
3344	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3345	M	16.2	16.3	16.6	14.8	10.9	11.5	14.8	17.4	15.3	15.2	14.4	17.9	18.3	18.1	16.3	16.0	17.9	14.4	17.7	7.8
3346	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3347	M	18.7	17.4	17.4	17.3	18.1	18.0	17.3	18.4	17.4	18.1	19.0	19.0	18.6	19.1	19.4	19.3	17.9	18.4	18.9	18.6
3348	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3349	M	15.4	14.9	15.0	13.5	13.0	13.0	14.7	16.7	17.3	17.1	15.7	15.4	10.1	16.0	17.0	16.9	---	---	---	---
3350	M	15.4	14.9	15.0	13.5	13.0	13.0	14.7	16.7	17.3	17.1	15.7	15.4	10.1	---	---	---	---	---	---	---
3351	M	15.4	14.9	15.0	13.5	13.0	13.0	14.7	---	---	---	---	---	---	---	---	---	---	---	---	---
3352	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3353	M	17.3	15.9	17.0	16.8	16.8	17.2	13.3	---	---	---	---	---	---	---	---	---	---	---	---	---
3354	M	17.3	15.9	17.0	16.8	16.8	17.2	13.3	17.3	18.6	19.0	19.6	19.9	19.6	19.9	17.9	19.1	18.0	17.7	19.0	17.6
3355	M	14.2	14.4	14.2	14.7	14.7	14.5	14.9	15.3	14.3	14.3	14.6	14.6	14.9	14.5	14.2	14.7	14.7	14.1	13.8	14.5
3356	M	14.2	14.4	14.2	14.7	14.7	14.5	14.9	15.3	14.3	14.3	14.6	14.6	14.9	14.5	14.2	14.7	14.7	14.1	13.8	14.5
3357	M	14.2	14.4	14.2	14.7	14.7	14.5	14.9	15.3	14.3	14.3	14.6	14.6	14.9	14.5	14.2	14.7	14.7	14.1	13.8	14.5
3358	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3359	M	16.4	15.6	16.4	15.7	16.7	16.6	16.1	16.8	16.1	15.9	16.5	16.4	16.8	15.8	16.6	15.9	15.6	15.2	10.1	16.5

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

ANIMAL IDENTIFICATION NUMBER	SEX	TEST WEEK																103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101
361	M	15.9	14.7	14.4	15.6	15.4	14.8	15.3	15.9	11.0	8.7	13.8	11.6	9.9	12.6	15.1	---	---	---
362	M	15.9	14.7	14.4	15.6	15.4	14.8	15.3	15.9	11.0	8.7	13.8	11.6	9.9	---	---	---	---	---
363	M	15.9	14.7	14.4	15.6	15.4	14.8	15.3	15.9	11.0	8.7	---	---	---	---	---	---	---	---
364	M	16.0	15.3	15.1	15.5	15.1	15.1	16.0	16.5	15.9	16.1	16.4	15.6	16.0	16.4	16.6	16.5	16.5	17.4
365	M	16.0	15.3	15.1	15.5	15.1	15.1	16.0	16.5	15.9	16.1	16.4	15.6	16.0	16.4	16.6	16.5	16.5	17.4
366	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
367	M	15.4	14.9	14.4	14.8	14.1	14.1	14.9	14.5	14.7	12.8	11.4	---	---	---	---	---	---	---
368	M	15.4	14.9	14.4	14.8	14.1	14.1	14.9	14.5	14.7	12.8	11.4	16.3	16.2	16.3	16.1	15.2	10.1	11.9
369	M	15.4	14.9	14.4	14.8	14.1	14.1	14.9	14.5	14.7	12.8	11.4	16.3	16.2	16.3	16.1	15.2	10.1	11.9
370	M	14.0	14.0	13.5	14.4	14.4	14.6	13.5	14.3	14.1	14.7	14.1	12.4	9.2	16.6	17.3	17.7	16.7	16.0
371	M	14.0	14.0	13.5	14.4	14.4	14.6	13.5	14.3	14.1	14.7	14.1	12.4	9.2	---	---	---	---	---
372	M	14.0	14.0	13.5	14.4	14.4	14.6	13.5	---	---	---	---	---	---	---	---	---	---	---
373	M	16.0	14.9	13.3	13.9	16.4	15.4	14.5	16.6	15.4	15.0	15.7	15.3	10.3	---	---	---	---	---
374	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
375	M	16.0	14.9	13.3	13.9	16.4	15.4	14.5	16.6	15.4	15.0	15.7	15.3	10.3	15.7	16.4	17.3	17.6	16.6
376	F	11.9	11.6	9.7	11.0	12.7	12.3	20.4	12.4	12.6	13.0	13.6	13.6	13.9	14.1	13.6	13.6	12.7	13.4
377	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
378	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
379	F	10.9	10.2	10.7	10.6	11.5	11.2	11.1	11.4	11.8	12.3	13.2	12.2	12.6	12.1	12.4	12.2	12.1	11.7
380	F	10.9	10.2	10.7	10.6	11.5	11.2	11.1	11.4	11.8	12.3	13.2	12.2	12.6	12.1	12.4	12.2	12.1	11.7
381	F	10.9	10.2	10.7	10.6	11.5	11.2	11.1	11.4	11.8	12.3	13.2	12.2	12.6	12.1	12.4	12.2	12.1	11.7
382	F	13.1	11.3	11.9	10.7	12.5	11.8	12.3	10.6	11.7	12.1	14.1	15.0	15.1	14.5	13.3	13.1	13.3	12.0
383	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
384	F	13.1	11.3	11.9	10.7	12.5	11.8	12.3	10.6	11.7	12.1	14.1	15.0	15.1	14.5	13.3	13.1	13.3	12.0
385	F	12.3	12.2	11.6	11.9	13.4	13.6	13.9	13.4	14.0	13.6	15.0	13.9	15.4	16.0	12.3	12.6	16.1	14.3
386	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
387	F	12.3	12.2	11.6	11.9	13.4	13.6	13.9	13.4	14.0	13.6	15.0	13.9	15.4	16.0	12.3	12.6	---	---
388	F	11.1	10.3	11.0	11.9	11.3	11.5	11.8	12.0	12.6	11.5	12.4	12.4	12.3	11.5	11.9	11.2	10.1	9.1
389	F	11.1	10.3	11.0	11.9	11.3	11.5	11.8	12.0	12.6	11.5	12.4	12.4	12.3	11.5	11.9	11.2	10.1	9.1
390	F	11.1	10.3	11.0	11.9	11.3	11.5	11.8	12.0	12.6	11.5	12.4	12.4	12.3	11.5	11.9	11.2	10.1	9.1
391	F	11.3	9.3	9.6	9.0	9.4	12.2	12.7	11.9	11.6	13.1	12.9	12.2	13.4	13.4	14.2	13.2	12.0	12.8
392	F	11.3	9.3	9.6	9.0	9.4	12.2	12.7	11.9	11.6	13.1	12.9	12.2	13.4	13.4	14.2	13.2	12.0	12.8
393	F	11.3	9.3	9.6	9.0	9.4	---	---	---	---	---	---	---	---	---	---	---	---	---
394	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
395	F	14.4	12.9	13.4	13.6	14.3	13.4	13.3	12.1	15.6	14.6	10.0	---	---	---	---	---	---	---
396	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
397	F	12.0	11.8	11.5	11.8	12.4	12.6	12.9	12.1	12.6	8.5	---	---	---	---	---	---	---	---
398	F	12.0	11.8	11.5	11.8	12.4	12.6	12.9	12.1	12.6	8.5	13.9	13.9	14.4	11.1	6.9	14.4	13.6	14.1
399	F	12.0	11.8	11.5	11.8	12.4	12.6	12.9	12.1	12.6	8.5	13.9	13.9	14.4	11.1	6.9	---	---	---
400	F	11.5	10.9	11.8	12.2	12.5	12.6	12.7	11.3	11.6	12.2	12.8	12.4	12.5	12.2	12.0	10.6	11.8	12.4

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I T E M A L I R O N O U P S E X	TEST WEEK																				
	67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101	103	104	
401	3 F	11.5	10.9	11.8	12.2	12.5	12.6	12.7	11.3	11.6	12.2	12.8	12.4	12.5	12.2	12.0	10.6	11.8	12.4	11.8	10.8
402	3 F	11.5	10.9	11.8	12.2	12.5	12.6	12.7	11.3	11.6	12.2	12.8	12.4	12.5	12.2	12.0	10.6	11.8	12.4	11.8	10.8
403	3 F	12.8	11.7	12.2	12.4	12.8	12.6	13.5	13.0	12.4	12.2	12.8	12.4	12.1	11.3	9.7	9.3	12.7	12.5	11.6	12.1
404	3 F	12.8	11.7	12.2	12.4	12.8	12.6	13.5	13.0	12.4	12.2	12.8	12.4	12.1	11.3	9.7	9.3	12.7	12.5	11.6	12.1
405	3 F	12.8	11.7	12.2	12.4	12.8	12.6	13.5	13.0	12.4	12.2	12.8	12.4	12.1	11.3	9.7	9.3	12.7	12.5	11.6	12.1
406	3 F	12.8	11.7	12.2	12.4	12.8	12.6	13.5	13.0	12.4	12.2	12.8	12.4	12.1	11.3	9.7	9.3	12.7	12.5	11.6	12.1
407	3 F	14.7	13.1	15.0	14.0	14.6	15.1	14.9	13.0	14.3	15.7	15.3	14.3	14.7	16.7	16.1	15.7	15.7	16.6	15.1	16.6
408	3 F	11.3	10.9	11.5	11.3	12.4	11.8	10.9	12.1	11.2	11.5	12.4	12.8	11.6	13.9	12.3	11.1	12.5	13.6	11.8	13.1
409	3 F	11.3	10.9	11.5	11.3	12.4	11.8	10.9	12.1	11.2	11.5	12.4	12.8	11.6	13.9	12.3	11.1	12.5	13.6	11.8	13.1
410	3 F	11.3	10.9	11.5	11.3	12.4	11.8	10.9	12.1	11.2	11.5	12.4	12.8	11.6	13.9	12.3	11.1	12.5	13.6	11.8	13.1
411	3 F	11.3	10.9	11.5	11.3	12.4	11.8	10.9	12.1	11.2	11.5	12.4	12.8	11.6	13.9	12.3	11.1	12.5	13.6	11.8	13.1
412	3 F	11.3	8.2	7.2	11.7	13.7	13.1	14.4	13.4	13.1	14.0	15.3	14.9	15.6	14.4	14.6	15.4	14.7	15.4	13.4	10.1
413	3 F	11.3	8.2	7.2	11.7	13.7	13.1	14.4	13.4	13.1	14.0	15.3	14.9	15.6	14.4	14.6	15.4	14.7	15.4	13.4	10.1
414	3 F	11.3	8.2	7.2	11.7	13.7	13.1	14.4	13.4	13.1	14.0	15.3	14.9	15.6	14.4	14.6	15.4	14.7	15.4	13.4	10.1
415	3 F	12.7	12.3	12.9	12.1	13.4	12.8	13.1	11.5	13.1	13.7	12.8	10.4	7.5	7.6	13.7	15.0	16.0	13.7	14.6	13.6
416	3 F	12.7	12.3	12.9	12.1	13.4	12.8	13.1	11.5	13.1	13.7	12.8	10.4	7.5	7.6	13.7	15.0	16.0	13.7	14.6	13.6
417	3 F	12.7	12.3	12.9	12.1	13.4	12.8	13.1	11.5	13.1	13.7	12.8	10.4	7.5	7.6	13.7	15.0	16.0	13.7	14.6	13.6
418	3 F	12.5	11.4	11.5	12.3	12.7	12.6	13.1	11.9	12.6	13.0	13.6	12.4	13.4	13.1	13.3	13.4	13.0	11.9	12.4	12.6
419	3 F	12.5	11.4	11.5	12.3	12.7	12.6	13.1	11.9	12.6	13.0	13.6	12.4	13.4	13.1	13.3	13.4	13.0	11.9	12.4	12.6
420	3 F	12.5	11.4	11.5	12.3	12.7	12.6	13.1	11.9	12.6	13.0	13.6	12.4	13.4	13.1	13.3	13.4	13.0	11.9	12.4	12.6
421	3 F	12.3	12.0	11.4	11.7	12.2	12.2	12.4	11.0	12.1	12.2	12.5	12.9	13.1	12.2	12.3	12.9	12.0	11.9	11.6	12.0
422	3 F	12.3	12.0	11.4	11.7	12.2	12.2	12.4	11.0	12.1	12.2	12.5	12.9	13.1	12.2	12.3	12.9	12.0	11.9	11.6	12.0
423	3 F	12.3	12.0	11.4	11.7	12.2	12.2	12.4	11.0	12.1	12.2	12.5	12.9	13.1	12.2	12.3	12.9	12.0	11.9	11.6	12.0
424	3 F	13.4	12.2	13.4	11.9	13.8	14.3	14.7	13.4	13.3	13.7	14.5	14.1	14.6	14.9	15.8	14.1	14.6	14.1	13.5	13.9
425	3 F	13.4	12.2	13.4	11.9	13.8	14.3	14.7	13.4	13.3	13.7	14.5	14.1	14.6	14.9	15.8	14.1	14.6	14.1	13.5	13.9
426	3 F	13.4	12.2	13.4	11.9	13.8	14.3	14.7	13.4	13.3	13.7	14.5	14.1	14.6	14.9	15.8	14.1	14.6	14.1	13.5	13.9
427	3 F	14.9	12.4	14.6	14.0	13.6	14.1	13.7	13.4	13.0	13.3	14.1	14.9	14.6	13.3	14.1	14.7	14.1	13.7	12.7	13.6
428	3 F	14.9	12.4	14.6	14.0	13.6	14.1	13.7	13.4	13.0	13.3	14.1	14.9	14.6	13.3	14.1	14.7	14.1	13.7	12.7	13.6
429	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
430	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
431	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
432	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
433	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
434	3 F	12.7	12.7	11.7	12.5	12.4	12.4	12.0	11.6	12.2	13.0	13.0	12.5	13.1	12.7	12.8	12.9	11.8	11.1	11.4	11.5
435	3 F	13.7	13.1	13.4	12.3	14.0	10.6	16.7	12.4	11.1	12.1	13.1	13.3	16.0	13.6	12.6	11.9	9.2	6.5	12.3	12.7
436	3 F	12.4	11.6	10.9	12.3	12.8	12.8	12.8	11.4	11.2	9.7	8.4	12.4	12.6	12.3	12.6	11.9	9.2	6.5	12.3	12.7
437	3 F	12.4	11.6	10.9	12.3	12.8	12.8	12.8	11.4	11.2	9.7	8.4	12.4	12.6	12.3	12.6	11.9	9.2	6.5	12.3	12.7
438	3 F	12.4	11.6	10.9	12.3	12.8	12.8	12.8	11.4	11.2	9.7	8.4	12.4	12.6	12.3	12.6	11.9	9.2	6.5	12.3	12.7
439	3 F	10.8	11.3	11.3	11.8	11.6	11.8	12.0	11.4	11.8	12.4	11.8	12.1	12.1	11.6	10.1	11.1	11.6	12.3	9.3	5.6
440	3 F	10.8	11.3	11.3	11.8	11.6	11.8	12.0	11.4	11.8	12.4	11.8	12.1	12.1	11.6	10.1	11.1	11.6	12.3	9.3	5.6

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L I D E N T I F I C A T O R	S E X	TEST WEEK																103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99	101
441	3 F	10.8	11.3	11.3	11.8	11.6	11.8	12.0	11.4	11.8	12.4	11.8	12.1	12.1	11.6	10.1	11.1	11.6	12.3
442	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
443	3 F	12.4	12.1	14.1	13.0	13.6	10.9	12.6	14.4	13.4	13.0	---	14.1	13.1	13.7	15.6	14.7	13.9	13.7
444	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
445	3 F	11.8	11.7	15.2	11.9	12.6	12.4	12.6	12.4	12.6	12.9	16.0	12.5	13.2	13.0	12.5	12.9	12.3	12.1
446	3 F	11.8	11.7	15.2	11.9	12.6	12.4	12.6	12.4	12.6	12.9	16.0	12.5	13.2	13.0	12.5	12.9	12.3	12.1
447	3 F	11.8	11.7	15.2	11.9	12.6	12.4	12.6	12.4	12.6	12.9	16.0	12.5	13.2	13.0	12.5	12.9	12.3	12.1
448	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
449	3 F	12.3	14.9	---	12.0	12.6	13.6	13.6	10.9	12.1	12.4	13.0	12.9	15.3	13.6	3.4	---	---	---
450	3 F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
451	4 M	15.6	15.0	14.2	14.0	14.6	15.0	15.0	15.8	14.6	14.4	15.0	14.4	14.2	14.1	14.6	14.6	13.9	13.8
452	4 M	15.6	15.0	14.2	14.0	14.6	15.0	15.0	15.8	14.6	14.4	15.0	14.4	14.2	14.1	14.6	14.6	13.9	13.8
453	4 M	15.6	15.0	14.2	14.0	14.6	15.0	15.0	15.8	14.6	14.4	15.0	14.4	14.2	14.1	14.6	14.6	13.9	13.8
454	4 M	18.3	16.9	16.4	17.6	16.9	17.7	16.9	16.3	11.4	18.6	16.7	18.0	17.4	17.3	16.9	17.6	17.0	16.4
455	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
456	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
457	4 M	15.9	16.0	15.4	15.1	15.4	15.0	13.9	14.4	10.0	---	---	---	---	---	---	---	---	---
458	1 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
459	4 M	15.9	16.0	15.4	15.1	15.4	15.0	13.9	14.4	10.0	12.9	14.6	14.7	14.9	15.0	15.7	15.3	14.6	15.0
460	4 M	16.7	15.1	15.0	15.0	16.6	16.1	15.0	15.6	14.9	14.8	14.7	9.6	---	---	---	---	---	---
461	4 M	16.7	15.1	15.0	15.0	16.6	16.1	15.0	15.6	14.9	14.8	14.7	9.6	14.5	15.3	15.1	14.6	14.4	10.3
462	4 M	16.7	15.1	15.0	15.0	16.6	16.1	15.0	15.6	14.9	14.8	14.7	9.6	14.5	15.3	15.1	14.6	14.4	10.3
463	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
464	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
465	4 M	16.4	16.1	15.4	16.6	16.6	16.3	16.3	15.3	15.0	15.6	15.6	15.6	15.3	15.0	9.9	3.0	---	---
466	4 M	15.0	14.1	13.9	14.0	15.0	14.2	13.9	15.0	14.5	14.0	13.8	13.2	11.2	7.3	---	---	---	---
467	4 M	15.0	14.1	13.9	14.0	15.0	14.2	13.9	15.0	14.5	14.0	13.8	13.2	11.2	7.3	8.0	13.8	9.9	13.9
468	4 M	15.0	14.1	13.9	14.0	15.0	14.2	13.9	15.0	14.5	14.0	13.8	13.2	11.2	7.3	8.0	13.8	9.9	13.9
469	4 M	16.2	16.6	15.3	16.2	15.4	16.9	16.8	19.0	19.4	19.9	18.7	19.1	19.6	19.7	12.6	9.1	24.0	17.7
470	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
471	4 M	16.2	16.6	15.3	16.2	15.4	16.9	16.8	---	---	---	---	---	---	---	---	---	---	---
472	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
473	4 M	16.5	15.5	15.6	15.1	15.1	11.4	8.2	10.9	---	---	---	---	---	---	---	---	---	---
474	4 M	16.5	15.5	15.6	15.1	15.1	11.4	8.2	10.9	14.9	15.0	16.3	16.4	15.9	16.0	16.1	16.1	16.4	16.7
475	4 M	16.3	16.2	15.6	15.8	16.6	15.9	14.9	16.4	15.1	15.3	15.7	15.4	15.9	15.4	15.2	17.1	15.7	15.4
476	4 M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
477	4 M	16.3	16.2	15.6	15.8	16.6	15.9	14.9	16.4	15.1	15.3	15.7	15.4	15.9	15.4	15.2	17.1	15.7	15.4
478	4 M	16.3	15.9	15.1	15.2	14.7	14.6	14.9	14.2	14.3	13.9	14.0	13.8	14.2	13.6	13.6	9.2	7.5	12.1
479	4 M	16.3	15.9	15.1	15.2	14.7	14.6	14.9	14.2	14.3	13.9	14.0	13.8	14.2	13.6	13.6	9.2	7.5	12.1
480	4 M	16.3	15.9	15.1	15.2	14.7	14.6	14.9	14.2	14.3	13.9	14.0	13.8	14.2	13.6	13.6	9.2	7.5	12.1

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L G R O U P	S E X	1FST WEEK																104		
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97		99	101
481	M	17.4	14.6	16.4	17.0	17.4	16.5	15.9	15.0	14.4	7.9	21.4	10.4	---	---	---	---	---	---	---
482	M	17.4	14.6	16.4	17.0	17.4	16.5	15.9	15.0	14.4	7.9	21.4	10.4	16.3	0.0	---	---	---	---	---
483	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
484	M	16.4	16.9	16.9	16.9	16.7	15.0	16.4	16.7	16.9	17.0	17.4	16.7	17.3	16.0	16.9	16.7	16.7	16.3	17.1
485	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
486	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
487	M	15.1	14.0	14.0	13.6	14.3	14.2	13.8	14.2	13.9	13.4	13.7	13.6	13.0	13.0	12.8	13.6	13.0	13.2	12.2
488	M	15.1	14.0	14.0	13.6	14.3	14.2	13.8	14.2	13.9	13.4	13.7	13.6	13.0	13.0	12.8	13.6	13.0	13.2	12.2
489	M	15.1	14.0	14.0	13.6	14.3	14.2	13.8	14.2	13.9	13.4	13.7	13.6	13.0	13.0	12.8	13.6	13.0	13.2	12.2
490	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
491	M	16.0	15.6	15.3	15.6	15.6	15.7	15.6	16.3	14.9	16.3	17.1	14.6	18.0	16.1	16.3	14.7	6.9	---	---
492	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
493	M	15.0	14.3	14.3	14.1	15.4	15.0	14.4	14.4	14.8	13.9	14.3	13.2	13.2	12.0	14.8	15.9	12.4	6.8	13.6
494	M	15.0	14.3	14.3	14.1	15.4	15.0	14.4	14.4	14.8	13.9	14.3	13.2	13.2	12.0	14.8	15.9	12.4	6.8	13.6
495	M	15.0	14.3	14.3	14.1	15.4	15.0	14.4	14.4	14.8	13.9	14.3	13.2	13.2	12.0	14.8	15.9	12.4	6.8	13.6
496	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
497	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
498	M	17.1	16.6	16.3	16.9	17.6	17.4	16.3	16.9	16.9	17.7	17.4	16.7	16.6	16.3	20.1	17.0	15.6	14.9	16.0
499	M	16.0	15.8	15.3	15.8	15.4	15.6	14.9	15.9	15.5	15.6	16.1	15.9	15.7	16.1	15.6	16.9	16.3	15.7	16.3
500	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
501	M	16.0	15.8	15.3	15.8	15.4	15.6	14.9	15.9	15.5	15.6	16.1	15.9	15.7	16.1	15.6	16.9	16.3	15.7	16.3
502	M	16.4	15.1	16.3	16.0	16.1	15.8	16.1	16.6	16.5	16.1	15.9	15.4	15.3	14.2	15.2	13.6	12.8	14.9	15.0
503	M	16.4	15.1	16.3	16.0	16.1	15.8	16.1	16.6	16.5	16.1	15.9	15.4	15.3	14.2	15.2	13.6	12.8	14.9	15.0
504	M	15.4	15.1	16.3	16.0	16.1	15.8	16.1	16.6	16.5	16.1	15.9	15.4	15.3	14.2	15.2	13.6	12.8	14.9	15.0
505	M	14.9	14.1	14.8	14.6	15.2	15.0	15.0	14.5	14.5	14.7	14.1	12.5	10.2	14.9	14.5	11.5	10.2	---	---
506	M	14.9	14.1	14.8	14.6	15.2	15.0	15.0	14.5	14.5	14.7	14.1	12.5	10.2	14.9	14.5	11.5	10.2	---	---
507	M	14.9	14.1	14.8	14.6	15.2	15.0	15.0	14.5	14.5	14.7	14.1	12.5	10.2	14.9	14.5	11.5	10.2	15.3	17.3
508	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
509	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
510	M	16.9	15.7	16.1	15.7	16.9	16.7	16.0	15.3	15.4	15.7	17.0	16.0	15.3	11.4	16.3	16.4	15.3	16.0	16.3
511	M	17.1	16.4	15.3	14.9	15.8	14.9	14.4	16.7	17.6	18.3	18.6	18.9	18.4	18.7	19.0	19.4	18.7	18.3	19.1
512	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
513	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
514	M	17.0	16.0	16.0	16.9	17.4	17.0	16.4	16.4	17.3	16.7	17.1	16.1	16.9	15.7	16.1	16.6	13.3	11.9	10.7
515	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
516	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
517	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
518	M	15.5	15.5	16.9	16.3	16.3	15.5	15.6	17.6	17.4	15.6	17.4	16.2	16.8	15.1	15.9	16.1	16.9	15.4	10.8
519	M	15.5	15.5	16.9	16.3	16.3	15.5	15.6	17.6	17.4	15.6	17.4	16.2	16.8	15.1	15.9	16.1	16.9	15.4	10.8
520	M	15.2	14.1	14.2	14.3	14.5	14.2	14.2	14.7	14.7	14.0	15.3	13.7	13.3	10.0	15.4	15.8	14.9	14.4	14.7

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T I M A L R O S O U P X	S E X	TEST WEEK																99	101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97				
521	A	M	15.2	14.1	14.2	14.3	14.5	14.2	14.7	14.7	14.0	15.3	13.7	13.3	10.0	15.4	15.8	14.9	14.4	14.7	15.8
522	A	M	15.2	14.1	14.2	14.3	14.5	14.2	14.7	14.7	14.0	15.3	13.7	13.3	10.0	---	---	---	---	---	---
523	A	M	15.4	15.0	15.1	14.7	15.1	13.5	14.0	14.4	15.1	15.0	15.4	15.6	14.8	13.9	14.0	13.9	14.0	12.0	12.2
524	A	M	15.4	15.0	15.1	14.7	15.1	13.5	14.0	14.4	15.1	15.0	15.4	15.6	14.8	13.9	14.0	13.9	14.0	12.0	12.2
525	A	M	15.4	15.0	15.1	14.7	15.1	13.5	14.0	14.4	15.1	15.0	15.4	15.6	14.8	13.9	14.0	13.9	14.0	12.0	12.2
526	A	F	10.9	9.1	11.0	11.3	11.9	10.5	11.3	11.1	10.9	11.9	12.8	11.0	9.2	8.4	---	---	---	---	---
527	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
528	A	F	10.9	9.1	11.0	11.3	11.9	10.5	11.3	11.1	10.9	11.9	12.8	11.0	9.2	8.4	13.7	12.6	12.4	13.1	11.8
529	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
530	A	F	14.0	13.3	12.3	13.1	12.0	13.7	13.9	14.3	13.9	14.9	14.6	14.7	15.6	14.9	14.0	8.4	5.9	5.6	5.1
531	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
532	A	F	11.0	10.6	11.0	10.8	12.0	11.9	11.8	11.3	11.5	11.0	11.7	12.8	12.0	10.0	11.7	11.9	10.8	10.1	10.8
533	A	F	11.0	10.6	11.0	10.8	12.0	11.9	11.8	11.3	11.5	11.0	11.7	12.8	12.0	10.0	11.7	11.9	10.8	10.1	10.8
534	A	F	11.0	10.6	11.0	10.8	12.0	11.9	11.8	11.3	11.5	11.0	11.7	12.8	12.0	10.0	---	---	---	---	---
535	A	F	12.3	11.3	11.5	12.7	12.7	12.3	12.8	12.3	13.4	13.0	13.1	12.9	12.1	12.6	12.1	12.6	12.5	12.1	12.1
536	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
537	A	F	12.3	11.3	11.5	12.7	12.7	12.3	12.8	12.3	13.4	13.0	13.1	12.9	12.1	12.6	12.1	12.6	12.5	12.1	12.1
538	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
539	A	F	13.0	10.9	12.0	12.8	13.3	12.9	11.9	12.4	13.0	13.6	11.9	14.1	13.6	14.4	12.8	13.0	12.5	9.8	7.6
540	A	F	13.0	10.9	12.0	12.8	13.3	12.9	11.9	12.4	13.0	13.6	11.9	14.1	13.6	14.4	12.8	13.0	12.5	9.8	7.6
541	A	F	12.0	11.1	12.6	13.0	12.6	13.4	13.3	12.7	13.0	13.6	14.1	12.1	12.4	13.7	14.3	13.6	15.0	13.7	14.0
542	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
543	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
544	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
545	A	F	11.8	10.6	11.7	11.1	11.8	11.1	12.2	10.8	11.0	11.9	12.2	9.9	12.1	10.2	6.6	8.4	11.1	8.4	10.1
546	A	F	11.8	10.6	11.7	11.1	11.8	11.1	12.2	10.8	11.0	11.9	12.2	9.9	12.1	10.2	6.6	8.4	11.1	8.4	10.1
547	A	F	11.5	10.9	11.7	11.9	12.1	12.1	11.4	11.9	12.4	12.9	12.2	12.4	12.9	12.3	12.4	11.9	12.2	9.3	8.6
548	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
549	A	F	11.5	10.9	11.7	11.9	12.1	12.1	11.4	11.9	12.4	12.9	12.2	12.4	12.9	12.3	12.4	11.9	12.2	9.3	8.6
550	A	F	12.4	12.3	11.8	12.8	12.1	11.6	12.1	11.1	14.2	10.4	10.1	10.4	9.0	13.9	14.0	14.6	14.9	14.6	13.2
551	A	F	12.4	12.3	11.8	12.8	12.1	11.6	12.1	11.1	11.2	10.4	10.1	10.4	9.0	---	---	---	---	---	---
552	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
553	A	F	11.8	11.7	11.6	11.8	12.6	11.8	12.6	11.7	12.3	12.8	13.0	12.4	12.6	12.7	12.6	12.2	10.9	11.6	10.2
554	A	F	11.8	11.7	11.6	11.8	12.6	11.8	12.6	11.7	12.3	12.8	13.0	12.4	12.6	12.7	12.6	12.2	10.9	11.6	10.2
555	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
556	A	F	10.5	11.6	12.2	11.6	11.9	11.6	12.3	11.5	12.9	12.9	12.6	12.1	12.6	12.5	12.1	12.1	12.9	13.1	11.9
557	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
558	A	F	10.5	11.6	12.2	11.6	11.9	11.6	12.3	11.5	12.9	12.9	12.6	12.1	12.6	12.5	12.1	12.1	12.9	13.1	11.9
559	A	F	12.6	11.3	11.1	11.3	11.7	12.4	12.1	11.7	12.4	13.1	12.9	12.4	13.9	13.7	13.3	13.6	13.9	13.1	12.6
560	A	F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N T M A L R N O S O P K	F	S	TEST WEEK																101	103	104
			67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
561	F		10.9	10.0	10.7	11.5	12.2	11.0	11.2	11.4	11.5	11.2	12.0	12.0	12.0	13.1	12.9	12.0	11.6	11.9	11.1
562	F		10.9	10.0	10.7	11.5	12.2	11.0	11.2	11.4	11.5	11.2	12.0	12.0	12.0	13.1	12.9	12.0	11.6	11.9	11.1
563	F		10.9	10.0	10.7	11.5	12.2	11.0	11.2	11.4	11.5	11.2	12.0	12.0	12.0	13.1	12.9	12.0	11.6	11.9	11.1
564	F		12.6	8.7	12.0	11.1	11.9	9.7	13.4	12.0	12.0	12.4	12.9	12.6	12.9	14.3	15.1	15.3	13.0	13.7	13.3
565	F																				
566	F																				
567	F																				
568	F		10.6	10.4	10.5	10.1	11.1	11.1	11.3	11.4	11.9	12.0	12.6	13.4	13.8	13.9	14.1	12.6	14.2	13.9	11.0
569	F		10.6	10.4	10.5	10.1	11.1	11.1	11.3	11.4	11.9	12.0	12.6	13.4	13.8	13.9	14.1	12.6	14.2	13.9	11.0
570	F																				
571	F		11.5	10.5	11.2	10.7	11.9	11.6	11.7	11.7	12.4	12.5	13.0	13.3	12.9	12.3	13.0	12.6	13.1	11.9	12.0
572	F		11.5	10.5	11.2	10.7	11.9	11.6	11.7	11.7	12.4	12.5	13.0	13.3	12.9	12.3	13.0	12.6	13.1	11.9	12.0
573	F		11.5	10.5	11.2	10.7	11.9	11.6	11.7	11.7	12.4	12.5	13.0	13.3	12.9	12.3	13.0	12.6	13.1	11.9	12.0
574	F		10.7	9.7	9.8	11.1	11.4	10.9	11.1	11.5	12.1	12.6	12.6	12.0	12.2	11.6	12.1	9.8	10.0	10.5	11.6
575	F		10.7	9.7	9.8	11.1	11.4	10.9	11.1	11.5	12.1	12.6	12.6	12.0	12.2	11.6	12.1	9.8	10.0	10.5	11.6
576	F		10.7	9.7	9.8	11.1	11.4	10.9	11.1	11.5	12.1	12.6	12.6	12.0	12.2	11.6	12.1	9.8	10.0	10.5	11.6
577	F		11.8	11.0	11.0	11.2	12.2	12.5	11.0	12.0	11.4	10.7	11.9	12.1	11.8	10.4	11.9	12.9	12.0	10.4	9.8
578	F		11.8	11.0	11.0	11.2	12.2	12.5	11.0	12.0	11.4	10.7	11.9	12.1	11.8	10.4	11.9	12.9	12.0	10.4	9.8
579	F		10.5	11.0	11.0	10.3	11.3	11.0	10.9	10.2	11.6	11.3	12.2	11.5	12.1	11.9	12.0	9.7	7.7	10.4	9.8
580	F		10.5	11.0	11.0	10.3	11.3	11.0	10.9	10.2	11.6	11.3	12.2	11.5	12.1	11.9	12.0	9.7	7.7	10.4	9.8
581	F		10.5	11.0	11.0	10.3	11.3	11.0	10.9	10.2	11.6	11.3	12.2	11.5	12.1	11.9	12.0	9.7	7.7	10.4	9.8
582	F		11.5	9.4	11.9	10.6	12.1	10.9	9.6	8.7											
583	F		11.5	9.4	11.9	10.6	12.1	10.9	9.6	8.7											
584	F		11.5	9.4	11.9	10.6	12.1	10.9	9.6	8.7	11.3	12.7	13.0	12.4	11.9	12.1	12.3	12.3	12.1	12.7	11.7
585	F																				
586	F		11.6	10.4	11.0	11.4	12.1	12.8	11.2	11.4	12.3	11.6	13.4	12.2	12.4	13.3	12.7	12.6	12.2	13.5	12.5
587	F		11.6	10.4	11.0	11.4	12.1	12.8	11.2	11.4	12.3	11.6	13.4	12.2	12.4	13.3	12.7	12.6	12.2	13.5	12.5
588	F																				
589	F		11.2	10.1	10.5	10.6	11.3	10.6	11.1	12.0	11.2	11.4	13.0	12.1	11.5	11.8	12.1	12.1	11.6	11.4	11.3
590	F		11.2	10.1	10.5	10.6	11.3	10.6	11.1	12.0	11.2	11.4	13.0	12.1	11.5	11.8	12.1	12.1	11.6	11.4	11.3
591	F		11.2	10.1	10.5	10.6	11.3	10.6	11.1	12.0	11.2	11.4	13.0	12.1	11.5	11.8	12.1	12.1	11.6	11.4	11.3
592	F		10.9	11.5	10.3	10.8	11.3	10.8	11.8	11.3	10.5	11.2	12.4	12.4	12.5	12.3	12.6	12.4	11.8	11.4	12.5
593	F		10.9	11.5	10.3	10.8	11.3	10.8	11.8	11.3	10.5	11.2	12.4	12.4	12.5	12.3	12.6	12.4	11.8	11.4	12.5
594	F		10.9	11.5	10.3	10.8	11.3	10.8	11.8	11.3	10.5	11.2	12.4	12.4	12.5	12.3	12.6	12.4	11.8	11.4	12.5
595	F		11.0	10.4	10.8	10.8	11.5	11.5	11.5	12.2	11.0	10.7	12.6	11.5	11.3	11.6	12.3	12.9	12.9	11.1	11.1
596	F		11.0	10.4	10.8	10.8	11.5	11.5	11.5	12.2	11.0	10.7	12.6	11.5	11.3	11.6	12.3	12.9	12.9	11.1	11.5
597	F		11.0	10.4	10.8	10.8	11.5	11.5	11.5	12.2	11.0	10.7	12.6	11.5	11.3	11.6	12.3	12.9	12.9	11.1	11.5
598	F		12.6	11.2	11.7	12.0	11.9	11.6	11.4	11.9	13.3	13.3	13.5	13.4	13.4	13.0	12.9	12.9	11.8	12.9	12.4
599	F																				
600	F		12.6	11.2	11.7	12.0	11.9	11.6	11.4	11.9	13.3	13.3	13.5	13.4	13.4	13.0	12.9	12.9	11.8	12.9	12.4

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L I D E N T I F I C A T I O N	S E X	TEST WEEK																103	104		
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97			99	
601	S	15.9	14.3	12.9	14.4	13.1	14.5	13.6	14.1	14.9	14.5	14.1	14.6	14.9	14.1	14.8	15.7	15.1	13.8	14.3	14.0
602	S	15.9	14.3	12.9	14.4	13.1	14.5	13.6	14.1	14.9	14.5	14.1	14.6	14.9	14.1	14.8	15.7	15.1	13.8	14.3	14.0
603	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604	S	14.9	14.9	14.4	14.4	13.7	14.7	15.0	16.0	14.0	15.4	16.6	16.0	15.7	14.7	15.7	14.9	16.0	14.9	13.3	15.6
605	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
608	S	15.1	14.6	13.6	13.8	14.4	13.3	13.6	14.6	13.6	13.5	14.4	14.3	14.3	13.4	13.5	13.4	13.5	13.0	13.1	12.2
609	S	15.1	14.6	13.6	13.8	14.4	13.3	13.6	14.6	13.6	13.5	14.4	14.3	14.3	13.4	13.5	13.4	13.5	13.0	13.1	12.2
610	S	14.7	13.7	13.4	13.4	13.5	13.7	14.1	14.6	13.4	13.5	13.8	13.5	13.1	13.0	13.1	13.5	13.8	12.5	13.6	13.6
611	S	14.7	13.7	13.4	13.4	13.5	13.7	14.1	14.6	13.4	13.5	13.8	13.5	13.1	13.0	13.1	13.5	13.8	12.5	13.6	13.6
612	S	14.7	13.7	13.4	13.4	13.5	13.7	14.1	14.6	13.4	13.5	13.8	13.5	13.1	13.0	13.1	13.5	13.8	12.5	13.6	13.6
613	S	15.1	14.7	14.7	14.5	15.4	14.6	13.7	14.5	14.1	14.1	12.1	11.2	14.5	14.0	14.1	12.8	10.6	10.4	10.8	9.3
614	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
615	S	15.1	14.7	14.7	14.5	15.4	14.6	13.7	14.5	14.1	14.1	12.1	11.2	14.5	14.0	14.1	12.8	10.6	10.4	10.8	9.3
616	S	14.7	14.8	13.0	13.9	13.3	14.1	13.9	13.9	13.9	13.0	13.0	13.4	12.6	13.1	13.0	13.3	12.6	13.3	7.7	7.7
617	S	14.7	14.8	13.0	13.9	13.3	14.1	13.9	13.9	13.9	13.0	13.0	13.4	12.6	13.1	13.0	13.3	12.6	13.3	7.7	7.7
618	S	14.7	14.8	13.0	13.9	13.3	14.1	13.9	13.9	13.9	13.0	13.0	13.4	12.6	13.1	13.0	13.3	12.6	13.3	7.7	7.7
619	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
620	S	14.6	14.3	14.4	14.2	15.1	14.4	14.1	14.5	13.4	12.4	13.5	13.6	13.6	12.6	12.4	12.9	13.7	13.1	13.1	10.9
621	S	14.6	14.3	14.4	14.2	15.1	14.4	14.1	14.5	13.4	12.4	13.5	13.6	13.6	12.6	12.4	12.9	13.7	13.1	13.1	10.9
622	S	15.3	15.0	13.3	14.1	13.8	14.4	13.5	13.5	13.2	13.5	13.5	13.8	13.3	12.8	13.1	13.0	14.5	12.4	9.0	9.2
623	S	15.3	15.0	13.3	14.1	13.8	14.4	13.5	13.5	13.2	13.5	13.5	13.8	13.3	12.8	13.1	13.0	14.5	12.4	9.0	9.2
624	S	15.3	15.0	13.3	14.1	13.8	14.4	13.5	13.5	13.2	13.5	13.5	13.8	13.3	12.8	13.1	13.0	14.5	12.4	9.0	9.2
625	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
626	S	14.6	14.4	13.6	14.0	15.2	14.9	14.5	15.0	14.7	14.6	14.7	15.2	15.4	14.6	11.1	12.9	15.0	8.3	13.4	12.8
627	S	14.6	14.4	13.6	14.0	15.2	14.9	14.5	15.0	14.7	14.6	14.7	15.2	15.4	14.6	11.1	12.9	---	---	---	---
628	S	12.0	9.1	9.0	10.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
629	S	12.0	9.1	9.0	10.3	13.3	13.9	14.7	16.6	16.0	15.3	15.7	16.7	16.1	15.7	15.6	14.7	14.9	13.0	14.1	15.3
630	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
631	S	14.3	13.6	13.4	13.9	14.2	13.7	13.7	14.9	13.8	13.6	13.9	14.1	13.1	12.7	11.6	13.7	12.0	---	---	---
632	S	14.3	13.6	13.4	13.9	14.2	13.7	13.7	14.9	13.8	13.6	13.9	14.1	13.1	12.7	11.6	13.7	12.0	12.0	15.3	17.7
633	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
634	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
635	S	13.0	12.9	12.1	12.3	12.1	12.9	11.2	12.4	11.7	11.7	13.2	11.6	10.8	13.1	13.4	12.7	12.9	12.9	12.3	12.1
636	S	13.0	12.9	12.1	12.3	12.1	12.9	11.2	12.4	11.7	11.7	13.2	11.6	10.8	---	---	---	---	---	---	---
637	S	13.7	14.9	13.9	14.0	15.0	13.6	13.9	14.0	13.5	13.9	14.1	13.6	13.0	12.6	12.2	14.0	12.4	12.8	12.5	13.2
638	S	13.7	14.9	13.9	14.0	15.0	13.6	13.9	14.0	13.5	13.9	14.1	13.6	13.0	12.6	12.2	14.0	12.4	12.8	12.5	13.2
639	S	13.7	14.9	13.9	14.0	15.0	13.6	13.9	14.0	13.5	13.9	14.1	13.6	13.0	12.6	12.2	14.0	12.4	12.8	12.5	13.2
640	S	14.6	13.9	13.8	14.1	14.9	14.9	14.2	14.9	15.2	13.7	14.9	15.6	15.1	13.8	14.9	16.1	16.0	9.5	13.1	15.2

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L	S E X	TEST WEEK																104			
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97		99	101	103
641	S	---	---	---	---	---	---	---	---	15.2	13.7	14.9	15.6	15.1	13.8	14.9	16.1	16.0	9.5	13.1	15.2
642	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
643	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
644	S	14.5	14.3	14.1	13.6	14.1	13.9	13.7	14.1	13.2	13.3	14.1	13.7	13.7	12.9	12.9	13.5	13.2	10.9	11.9	11.1
645	S	14.5	13.4	13.4	13.2	14.0	13.8	13.2	13.7	13.6	12.8	13.7	13.3	13.4	12.7	13.4	13.7	13.5	13.3	12.3	13.0
646	S	14.5	13.4	13.4	13.2	14.0	13.8	13.2	13.7	13.6	12.8	13.7	13.3	13.4	12.7	13.4	13.7	13.5	13.3	12.3	13.0
647	S	14.5	13.4	13.4	13.2	14.0	13.8	13.2	13.7	13.6	12.8	13.7	13.3	13.4	12.7	13.4	13.7	13.5	13.3	12.3	13.0
648	S	14.5	13.4	13.4	13.2	14.0	13.8	13.2	13.7	13.6	12.3	9.6	---	---	---	---	---	---	---	---	---
649	S	14.6	13.6	13.4	13.8	14.4	14.8	13.8	13.9	13.6	12.3	9.6	13.4	14.9	8.3	7.4	---	---	---	---	---
650	S	14.6	13.6	13.4	13.8	14.4	14.8	13.8	13.9	13.6	12.3	9.6	13.4	14.9	8.3	7.4	13.1	12.9	13.0	14.9	14.7
651	S	14.6	13.6	13.4	13.8	14.4	14.8	13.8	13.9	13.6	12.3	9.6	13.4	14.9	8.3	7.4	13.1	12.9	13.0	14.9	14.7
652	S	13.4	13.1	13.1	13.4	13.7	12.9	13.2	14.4	13.8	13.8	14.2	14.1	13.7	13.0	12.6	13.8	11.5	13.0	9.1	10.4
653	S	13.4	13.1	13.1	13.4	13.7	12.9	13.2	14.4	13.8	13.8	14.2	14.1	13.7	13.0	12.6	13.8	11.5	13.0	9.1	10.4
654	S	13.4	13.1	13.1	13.4	13.7	12.9	13.2	14.4	13.8	13.8	14.2	14.1	13.7	13.0	12.6	13.8	11.5	13.0	9.1	10.4
655	S	14.1	13.4	13.1	13.1	20.6	13.7	12.7	13.4	12.8	13.6	14.0	14.3	13.6	12.3	12.8	13.3	13.3	6.7	---	---
656	S	14.1	13.4	13.1	13.1	20.6	13.7	12.7	13.4	12.8	13.6	14.0	14.3	13.6	12.3	12.8	13.3	13.3	6.7	7.0	11.7
657	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
658	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
659	S	16.1	14.1	14.4	14.9	15.3	15.6	14.6	15.4	14.7	15.1	16.0	15.9	15.6	15.0	15.4	15.6	14.9	14.4	15.9	15.1
660	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
661	S	15.2	15.1	14.4	14.8	15.4	14.1	14.4	15.4	14.1	14.9	14.1	14.8	14.1	13.1	13.5	13.3	14.5	13.8	13.4	12.8
662	S	15.2	15.1	14.4	14.8	15.4	14.1	14.4	15.4	14.1	14.9	14.1	14.8	14.1	13.1	13.5	13.3	14.5	13.8	13.4	12.8
663	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
664	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
665	S	15.6	14.9	13.4	14.4	14.7	15.7	15.0	16.0	15.4	16.3	16.3	16.9	15.1	15.0	15.3	15.6	13.1	13.7	14.5	13.8
666	S	---	---	---	---	---	---	---	---	7.7	---	---	---	---	---	---	---	---	---	---	---
667	S	15.2	18.2	14.3	14.9	14.5	15.2	14.1	14.4	13.5	14.7	14.8	15.1	14.7	14.3	14.5	15.4	14.3	13.6	13.8	13.6
668	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
669	S	15.2	18.2	14.3	14.9	14.5	15.2	14.1	14.4	13.5	14.7	14.8	15.1	14.7	14.3	14.5	15.4	14.3	13.6	13.8	13.6
670	S	14.1	14.1	13.5	13.1	12.9	13.2	13.6	12.6	14.1	13.8	14.3	12.5	13.4	11.9	12.4	12.5	---	---	---	---
671	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
672	S	14.1	14.1	13.5	13.1	12.9	13.2	13.6	12.6	14.1	13.8	14.3	12.5	13.4	11.9	12.4	---	---	---	---	---
673	S	15.4	14.2	12.8	14.0	14.6	14.4	14.3	14.4	14.2	14.1	15.0	15.5	13.4	14.6	15.6	14.4	11.9	8.3	16.1	16.4
674	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
675	S	15.4	14.2	12.8	14.0	14.6	14.4	14.3	14.4	14.2	14.1	15.0	15.5	13.4	14.6	15.6	14.4	11.9	8.3	---	---
676	S	10.3	10.2	9.7	9.6	10.0	10.2	9.4	10.1	10.0	9.5	11.2	10.7	9.3	8.8	10.9	11.6	10.8	10.8	11.6	10.9
677	S	10.3	10.2	9.7	9.6	10.0	10.2	9.4	10.1	10.0	9.5	11.2	10.7	9.3	8.8	10.9	11.6	10.8	10.8	11.6	10.9
678	S	10.3	10.2	9.7	9.6	10.0	10.2	9.4	10.1	10.0	9.5	11.2	10.7	9.3	8.8	10.9	11.6	10.8	10.8	11.6	10.9
679	S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
680	S	11.3	9.7	9.9	10.0	9.6	10.6	10.6	11.1	10.9	11.6	12.1	12.1	11.1	11.4	11.1	11.4	11.1	11.0	11.9	10.9

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L N O S O P X	S E X	TEST WEEK																101	103	104
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97	99		
681	S	F	11.3	9.7	9.9	10.0	9.6	10.6	11.1	10.9	11.6	12.1	12.1	11.1	11.4	11.1	11.4	11.1	11.0	10.9
682	S	F	9.6	8.9	8.5	8.6	9.6	9.5	9.7	10.2	10.4	10.6	10.3	10.1	10.2	10.0	10.0	10.0	9.5	9.6
683	S	F	9.6	8.9	8.5	8.6	9.6	9.5	9.7	10.0	10.2	10.4	10.3	10.1	10.2	10.0	10.0	10.0	9.5	9.6
684	S	F	9.6	8.9	8.5	8.6	9.6	9.5	9.7	10.0	10.2	10.4	10.3	10.1	10.2	10.0	10.0	10.0	9.5	9.6
685	S	F	10.6	10.6	9.6	9.9	10.6	10.8	11.0	11.2	10.8	11.3	9.0	11.7	10.9	11.0	12.1	8.6	--	--
686	S	F	10.6	10.6	9.6	9.9	10.6	10.8	11.0	11.2	10.8	11.3	9.0	11.7	10.9	11.0	12.1	8.6	11.3	12.0
687	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
688	S	F	11.6	10.4	11.0	10.7	11.3	12.4	12.1	12.4	12.3	12.6	12.1	12.6	12.6	12.3	12.4	13.3	12.7	12.0
689	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
690	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
691	S	F	10.6	10.2	10.1	10.2	10.8	10.8	10.1	11.6	11.8	11.9	10.4	11.9	11.5	11.9	12.4	11.1	11.9	11.5
692	S	F	10.6	10.2	10.1	10.2	10.8	10.8	10.1	11.6	11.8	11.9	10.4	11.9	11.5	11.9	12.4	11.1	11.9	11.5
693	S	F	10.6	10.2	10.1	10.2	10.8	10.8	10.1	11.6	11.8	11.9	10.4	11.9	11.5	11.9	12.4	11.1	11.9	11.5
694	S	F	10.0	10.0	9.7	9.4	9.9	10.8	11.9	9.2	9.6	10.9	10.6	11.5	11.0	11.6	11.1	9.5	9.6	10.3
695	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
696	S	F	10.0	10.0	9.7	9.4	9.9	10.8	11.9	9.2	9.6	10.9	10.6	11.5	11.0	11.6	11.1	9.5	9.6	10.3
697	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
698	S	F	11.2	10.9	10.4	10.4	17.6	11.5	11.3	11.2	11.6	12.7	13.6	14.3	13.2	13.1	14.2	12.5	12.6	12.3
699	S	F	11.2	10.9	10.4	10.4	17.6	11.5	11.3	11.2	11.6	12.7	13.6	14.3	13.2	13.1	14.2	12.5	12.6	12.3
700	S	F	9.5	8.8	8.8	8.7	9.4	9.7	10.0	10.5	10.1	9.9	10.3	10.7	10.6	10.6	10.4	10.7	9.9	10.4
701	S	F	9.5	8.8	8.8	8.7	9.4	9.7	10.0	10.5	10.1	9.9	10.3	10.7	10.6	10.6	10.4	10.7	9.9	10.4
702	S	F	9.5	8.8	8.8	8.7	9.4	9.7	10.0	10.5	10.1	9.9	10.3	10.7	10.6	10.6	10.4	10.7	9.9	10.4
703	S	F	9.8	9.0	8.6	9.1	8.9	9.4	10.1	9.8	10.1	10.5	10.4	10.4	10.8	10.2	10.3	10.4	10.0	9.4
704	S	F	9.8	9.0	8.6	9.1	8.9	9.4	10.1	9.8	10.1	10.5	10.4	10.4	10.8	10.2	10.3	10.4	10.0	9.4
705	S	F	9.8	9.0	8.6	9.1	8.9	9.4	10.1	9.8	10.1	10.5	10.4	10.4	10.8	10.2	10.3	10.4	10.0	9.4
706	S	F	9.9	8.8	8.8	9.2	9.4	9.8	10.3	9.9	9.9	9.7	9.8	8.7	8.7	7.6	9.6	8.0	6.0	--
707	S	F	9.9	8.8	8.8	9.2	9.4	9.8	10.3	9.9	9.9	9.7	9.8	8.7	8.7	7.6	9.6	8.0	6.0	--
708	S	F	9.9	8.8	8.8	9.2	9.4	9.8	10.3	9.9	9.9	9.7	9.8	8.7	8.7	7.6	9.6	8.0	6.0	--
709	S	F	9.0	9.3	8.8	8.9	9.4	9.3	10.3	10.2	10.1	10.8	11.0	10.4	10.2	10.8	10.6	10.6	9.9	10.7
710	S	F	9.0	9.3	8.8	8.9	9.4	9.3	10.3	10.2	10.1	10.8	11.0	10.4	10.2	10.8	10.6	10.6	9.9	10.7
711	S	F	9.0	9.3	8.8	8.9	9.4	9.3	10.3	10.2	10.1	10.8	11.0	10.4	10.2	10.8	10.6	10.6	9.9	10.7
712	S	F	8.6	8.7	9.0	8.9	9.4	9.4	10.3	10.0	10.4	10.9	10.5	11.3	9.6	8.6	10.3	8.4	8.0	12.1
713	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
714	S	F	8.6	8.7	9.0	8.9	9.4	9.4	10.3	10.0	10.4	10.9	10.5	11.3	9.6	8.6	10.3	8.4	8.0	12.1
715	S	F	12.1	10.9	10.1	10.7	11.0	11.4	11.1	11.4	12.3	13.1	12.4	12.6	13.1	12.6	12.0	11.1	10.1	9.9
716	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
717	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
718	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
719	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
720	S	F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--- = NO AVAILABLE DATA

Table VI.3 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL FOOD CONSUMPTION MEASUREMENTS (g/day)

A N I M A L I D	S E X	TEST WEEK																104		
		67	69	71	73	75	77	79	81	83	85	87	89	91	93	95	97		99	101
721	F	11.0	9.6	10.5	10.0	11.0	11.0	11.1	11.5	12.5	13.1	12.9	13.6	12.3	13.3	13.7	14.0	13.4	12.9	14.0
722	F	11.0	9.6	10.5	10.0	11.0	11.0	11.1	11.5	12.5	13.1	12.9	13.6	12.3	13.3	13.7	14.0	13.4	12.9	14.0
723	F	11.0	9.6	10.5	10.0	11.0	11.0	11.1	11.5	12.5	13.1	12.9	13.6	12.3	13.3	13.7	14.0	13.4	12.9	14.0
724	F	10.1	9.4	9.4	8.9	9.5	10.9	11.4	11.7	11.6	11.7	12.2	12.4	12.1	14.3	12.2	11.8	11.3	10.9	11.5
725	F	10.1	9.4	9.4	8.9	9.5	10.9	11.4	11.7	11.6	11.7	12.2	12.4	12.1	14.3	12.2	11.8	11.3	10.9	11.5
726	F	10.1	9.4	9.4	8.9	9.5	10.9	11.4	11.7	11.6	11.7	12.2	12.4	12.1	14.3	12.2	11.8	11.3	10.9	11.5
727	F	10.1	9.4	9.4	8.9	9.5	10.9	11.4	11.7	11.6	11.7	12.2	12.4	12.1	14.3	12.2	11.8	11.3	10.9	11.5
728	F	10.8	10.3	10.4	9.8	10.6	10.7	11.3	11.6	10.8	11.6	12.1	11.6	10.3	11.4	12.0	11.7	11.5	10.9	10.3
729	F	10.8	10.3	10.4	9.8	10.6	10.7	11.3	11.6	10.8	11.6	12.1	11.6	10.3	11.4	12.0	11.7	11.5	10.9	10.3
730	F	10.8	10.3	10.4	9.8	10.6	10.7	11.3	11.6	10.8	11.6	12.1	11.6	10.3	11.4	12.0	11.7	11.5	10.9	10.3
731	F	10.0	9.7	8.9	9.1	9.6	9.8	11.0	10.7	10.3	10.6	11.1	11.0	10.8	10.7	10.5	10.4	10.6	10.5	11.4
732	F	10.0	9.7	8.9	9.1	9.6	9.8	11.0	10.7	10.3	10.6	11.1	11.0	10.8	10.7	10.5	10.4	10.6	10.5	11.4
733	F	10.7	10.5	10.8	10.7	11.1	11.4	11.5	11.6	11.7	12.1	12.1	11.8	11.6	11.3	10.5	8.5	6.1	11.1	12.1
734	F	10.7	10.5	10.8	10.7	11.1	11.4	11.5	11.6	11.7	12.1	12.1	11.8	11.6	11.3	10.5	8.5	6.1	11.1	12.1
735	F	10.7	10.5	10.8	10.7	11.1	11.4	11.5	11.6	11.7	12.1	12.1	11.8	11.6	11.3	10.5	8.5	6.1	11.1	12.1
736	F	10.5	9.5	9.4	9.3	9.4	10.5	10.4	10.4	11.3	11.4	11.0	11.5	11.4	11.4	11.3	11.8	11.5	10.4	11.8
737	F	10.5	9.5	9.4	9.3	9.4	10.5	10.4	10.4	11.3	11.4	11.0	11.5	11.4	11.4	11.3	11.8	11.5	10.4	11.8
738	F	10.5	9.5	9.4	9.3	9.4	10.5	10.4	10.4	11.3	11.4	11.0	11.5	11.4	11.4	11.3	11.8	11.5	10.4	11.8
739	F	10.5	9.5	9.4	9.3	9.4	10.5	10.4	10.4	11.3	11.4	11.0	11.5	11.4	11.4	11.3	11.8	11.5	10.4	11.8
740	F	10.8	10.8	10.2	10.1	11.1	11.3	10.8	11.3	11.3	11.3	12.1	11.9	11.4	10.3	12.4	10.9	11.0	12.0	11.9
741	F	10.8	10.8	10.2	10.1	11.1	11.3	10.8	11.3	11.3	11.3	12.1	11.9	11.4	10.3	12.4	10.9	11.0	12.0	11.9
742	F	9.4	9.4	9.2	9.4	9.7	10.0	10.2	10.6	11.0	10.6	11.0	10.8	10.8	10.7	10.5	10.6	10.9	10.6	9.8
743	F	9.4	9.4	9.2	9.4	9.7	10.0	10.2	10.6	11.0	10.6	11.0	10.8	10.8	10.7	10.5	10.6	10.9	10.6	9.8
744	F	9.4	9.4	9.2	9.4	9.7	10.0	10.2	10.6	11.0	10.6	11.0	10.8	10.8	10.7	10.5	10.6	10.9	10.6	9.8
745	F	10.6	9.5	10.2	9.4	10.4	11.1	10.9	11.5	11.1	10.8	12.0	11.6	11.0	11.1	11.4	11.6	11.1	11.2	11.9
746	F	10.6	9.5	10.2	9.4	10.4	11.1	10.9	11.5	11.1	10.8	12.0	11.6	11.0	11.1	11.4	11.6	11.1	11.2	11.9
747	F	10.6	9.5	10.2	9.4	10.4	11.1	10.9	11.5	11.1	10.8	12.0	11.6	11.0	11.1	11.4	11.6	11.1	11.2	11.9
748	F	9.5	9.2	10.0	9.5	9.8	10.0	10.6	11.1	11.0	11.3	11.4	11.3	11.4	11.0	10.7	11.2	10.7	10.1	9.9
749	F	9.5	9.2	10.0	9.5	9.8	10.0	10.6	11.1	11.0	11.3	11.4	11.3	11.4	11.0	10.7	11.2	10.7	10.1	9.9
750	F	9.5	9.2	10.0	9.5	9.8	10.0	10.6	11.1	11.0	11.3	11.4	11.3	11.4	11.0	10.7	11.2	10.7	10.1	9.9

--- = NO AVAILABLE DATA

[illegible]

Code for HowJol and Heinz Bodies

0 = < 1 positive RBCs per field  
1 = 1-2 positive RBCs per field  
2 = 2-4 positive RBCs per field  
3 = 4+ positive RBCs per field

----- = NO AVAILABLE DATA

Table VI.4a (continued)

Code for HowJol and Heinz Bodies

0 = < 1 positive RBC per field  
1 = 1-2 positive RBCs per field  
2 = 2-4 positive RBCs per field  
3 = 4-10 positive RBCs per field  
4 = > 10 positive RBCs per field

--- = NO AVAILABLE DATA

Code for HowJol and Helnz Bodies

0 = &lt; 1 positive RBC per field

1 = 1-2 positive RBCs per field

2 = 2-4 positive RBCs per field

3 = 4 + positive RBCs per field



TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL HEMATOLOGY VALUES - TEST WEEK 26

[illegible]

Code for HowJol and Heinz Bodies

0 = &lt; 1 positive RBC per field

1 = 1-2 positive RBCs per field

2 = 2-4 positive RBCs per field

100

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

----- NO AVAILABLE DATA

Table VI.4b (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL HEMATOLOGY VALUES - TEST WEEK 26

A	T	R	P	I	M	N	E	L	M	F	B	A	N	R	H	M
I	R	C	L	T	M	C	E	Y	U	O	S	S	/	B	O	E
A	G	O <sub>6</sub>	O <sub>3</sub>	O <sub>3</sub>	T	C	U	M	T	N	%	%	%	O	R	I
N	R	/	/	/	%	g	/	/	%	%	%	%	%	%	%	%
O	S	m	m	m	W	B	B	B	B	B	B	B	B	B	B	B
P	X	m <sub>3</sub>	m <sub>3</sub>	m <sub>3</sub>	C	C	C	C	C	C	C	C	C	C	C	C
613	5	39.1	14.8	18.8	39.2	8.06	6.7	712	0	16	83	1	0	0	2.1	1
614	5	41.8	15.3	17.6	37.8	8.97	7.5	732	0	19	79	2	0	0	2.1	0
615	5	36.9	13.9	18.5	38.6	7.67	7.7	928	0	59	40	0	1	0	1.9	1
616	5	41.5	15.1	18.2	37.4	8.50	10.2	600	0	21	77	1	1	0	1.8	0
617	5	41.6	14.9	18.2	37.4	8.53	9.0	900	0	26	74	0	0	0	3.1	0
618	5	38.9	14.4	17.8	36.3	8.35	8.3	618	0	24	75	0	1	0	2.5	1
619	5	39.4	14.8	17.9	38.5	8.45	9.3	1202	0	14	81	0	0	0	2.3	1
620	5	40.1	15.6	19.3	40.1	8.28	10.1	751	0	12	88	0	0	0	2.4	0
621	5	41.6	15.4	18.6	38.2	8.53	11.0	668	0	21	77	0	0	0	3.1	0
622	5	38.2	15.0	18.6	38.2	8.53	11.0	668	0	21	77	0	0	0	3.1	0
623	5	37.1	14.2	18.6	38.2	8.53	11.0	668	0	26	74	0	0	0	1.5	2
624	5	36.8	13.7	18.6	38.2	8.53	11.0	668	0	16	82	0	0	0	2.3	0
625	5	40.4	15.3	20.8	39.4	6.94	3.1	840	0	29	71	0	0	0	2.8	0
626	5	39.0	15.0	20.7	39.0	7.58	6.7	814	0	13	84	1	2	0	1.7	1
627	5	40.6	16.2	21.2	39.8	7.28	7.6	644	0	22	78	0	0	0	1.2	1
628	5	39.0	14.5	21.7	41.2	7.62	8.4	628	0	15	80	1	4	0	2.0	1
629	5	39.0	14.5	20.0	39.0	7.54	6.4	852	0	22	77	1	0	0	2.9	0
630	5	39.8	15.0	20.4	38.8	7.51	5.6	954	0	15	84	0	1	0	2.7	0
631	5	38.3	14.6	21.0	39.6	7.16	3.2	878	0	20	77	1	2	0	1.5	2
632	5	42.1	15.9	20.6	38.7	7.87	10.5	490	0	12	88	0	0	0	1.9	0

--- = NO AVAILABLE DATA

Code for HowJoI and Heinz Bodies

0 = < 1 positive RBC per field  
 1 = 1-2 positive RBCs per field  
 2 = 2-4 positive RBCs per field  
 3 = 4+ positive RBCs per field

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL HEMATOLOGY VALUES - TEST WEEK 52

[illegible]

- - - - NO AVAILABLE DATA

Code for HowJol and Helnz Bodies



TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNI) IN THE FISCHER 344 RAT  
 INDIVIDUAL HEMATOLOGY VALUES - TEST WEEK 52

[illegible]

----- = NO AVAILABLE DATA

Code for HowJol and Heinz Bodies

0 = &lt; 1 positive RBC per field

1 = 1-2 positive RBCs per field

2 = 2-4 positive RBCs per field

3 = 4 + positive RBCs per field



Table VI.4d (continued)

[illegible]

Code for HowJol and Heinz Bodies

----- = NO AVAILABLE DATA

0 = < 1 positive RBCs per field  
1 = 1-2 positive RBCs per field  
2 = 2-4 positive RBCs per field

Table VI 4.d (continued)

--- = NO AVAILABLE DATA

0 = < 1 positive RBCs per field  
1 = 1-2 positive RBCs per field  
2 = 2-4 positive RBCs per field  
3 = 4+ positive RBCs per field

STWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT INDIVIDUAL HEMATOLOGY VALUES - TEST WEEK 104

[illegible]

Code for HowJol and Heinz Bodies

----- = NO AVAILABLE DATA

0 = < 1 positive RBC per field  
1 = 1-2 positive RBCs per field  
2 = 2-4 positive RBCs per field



### Code for HowJol and Heinz Bodies

----- = NO AVAILABLE DATA

Table VI.5a  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 14

A	N	T	R	G	R	S	T	T	A	C	D	T	N	K	C	C	P	L	P	A
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
63	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
73	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
93	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
96	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
109	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
126	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
127	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
131	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
135	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
144	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
146	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
161	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
170	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
181	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
185	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
206	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
212	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
216	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
217	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
219	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
233	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
248	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
252	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
266	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
269	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
272	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
276	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
284	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

--- = NO AVAILABLE DATA

Table VI.5a (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 14

A	N	I	T	S	B	G	T	T	A	C	D	T	N	K	C	C	P	L	A	P	A
I	M	R	G	P	U	L	R	I	L	H	B	I	A	A	I	K	H	D	P	h	
M	A	G	I	T	m	m	g	g	B	O	m	m	m	m	m	m	K	L	s	o	
L	R	R	m	I	g	g	d	d	L	L	g	g	g	g	g	g	I	I	I	q	
N	O	S	/	U	/	/	/	/	/	/	/	/	/	/	/	/	U	U	U	u	
C	U	E	d	I	d	d	d	d	d	d	d	d	d	d	d	d	/	/	/	/	
	P	X	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	B
307	3	M	248	16	16	109	6.5	4.1	72	0.09	0.24	10.6	145	4.9	108	---	764	90	2.4	1.7	
309	3	M	138	18	18	106	6.9	4.5	73	0.05	0.16	10.5	158	5.3	113	---	606	75	2.4	1.9	
317	3	M	116	15	15	107	6.7	4.4	68	0.05	0.16	9.9	142	4.6	109	---	420	69	2.3	1.9	
337	3	M	147	16	16	109	6.4	4.3	60	0.05	0.16	10.4	153	5.4	109	---	580	84	2.1	2.0	
343	3	M	144	20	20	83	6.8	4.4	73	0.09	0.27	10.7	156	5.1	106	---	---	79	2.4	1.8	
345	3	M	162	16	16	98	6.5	4.2	72	0.07	0.20	10.1	150	5.6	113	---	896	72	2.3	1.8	
351	3	M	104	15	15	95	6.3	4.2	79	0.04	0.16	10.7	157	4.7	110	---	632	60	2.1	2.0	
363	3	M	149	20	20	72	6.5	4.3	72	0.06	0.20	10.1	157	5.3	109	---	1198	66	2.3	1.8	
365	3	M	88	16	16	137	6.4	4.3	64	0.06	0.18	9.6	144	5.0	104	---	672	73	2.1	2.0	
372	3	M	82	15	15	80	6.4	4.2	70	0.06	0.20	10.6	160	4.7	110	---	566	78	2.2	1.9	
376	3	F	36	16	16	75	5.9	4.1	99	0.04	0.11	9.2	144	4.9	111	---	606	67	1.8	2.3	
384	3	F	45	15	15	75	6.2	4.3	115	0.05	0.18	10.2	150	5.0	110	---	962	49	1.9	2.3	
398	3	F	69	16	16	82	6.4	4.1	109	0.06	0.19	10.0	148	5.3	112	---	750	63	2.3	1.8	
399	3	F	79	20	20	63	6.4	4.2	111	0.11	0.37	9.8	154	5.0	114	---	1160	51	2.2	1.9	
411	3	F	32	16	16	97	6.3	4.3	117	0.03	0.17	10.2	148	5.4	112	---	342	66	2.0	2.1	
421	3	F	89	17	17	90	6.6	4.2	119	0.06	0.17	10.1	146	5.2	113	---	790	70	2.4	1.7	
430	3	F	34	17	17	87	6.2	4.3	119	0.04	0.12	9.7	149	5.0	111	---	474	70	1.9	2.3	
436	3	F	101	14	14	84	6.5	4.7	139	0.06	0.19	10.3	147	4.9	108	---	948	51	2.4	1.7	
440	3	F	44	18	18	97	6.9	4.1	111	0.06	0.19	10.6	155	5.4	112	---	724	75	2.2	2.1	
447	3	F	43	17	17	82	6.0	4.0	96	0.05	0.18	10.1	155	4.9	110	---	870	69	2.0	2.0	
460	4	M	110	16	16	104	6.5	4.1	74	0.04	0.14	9.8	148	5.4	108	---	1080	78	2.4	1.7	
465	4	M	97	16	16	107	6.2	4.2	66	0.05	0.16	10.1	148	5.2	110	---	500	78	2.0	2.1	
469	4	M	180	18	18	100	6.9	4.3	86	0.05	0.19	10.7	148	5.1	110	---	646	72	2.6	1.7	
471	4	M	133	16	16	105	6.7	4.4	76	0.06	0.19	10.6	151	5.4	107	---	684	81	2.3	1.9	
479	4	M	149	20	20	130	6.5	4.4	76	0.08	0.21	9.3	159	5.6	112	---	870	78	2.1	2.1	
481	4	M	111	15	15	105	6.7	4.5	65	0.04	0.13	10.2	145	4.9	106	---	316	87	2.2	2.0	
502	4	M	41	16	16	85	6.2	4.1	61	0.03	0.11	10.3	158	5.2	112	---	552	72	2.1	2.0	
505	4	M	95	16	16	81	6.4	4.2	77	0.05	0.18	10.4	148	5.0	107	---	566	66	2.2	1.9	
519	4	M	211	14	14	117	7.2	4.6	84	0.07	0.22	11.3	160	5.4	107	---	738	85	2.6	1.8	
521	4	M	86	15	15	74	6.3	4.2	76	0.07	0.20	10.5	149	4.9	109	---	764	70	2.1	2.0	
540	4	F	44	13	13	96	6.2	4.2	108	0.03	0.11	10.3	150	4.8	112	---	750	73	2.0	2.1	
550	4	F	41	16	16	96	6.6	4.4	121	0.04	0.16	9.9	149	4.7	109	---	460	58	2.2	2.0	
556	4	F	55	15	15	87	6.3	4.1	136	0.04	0.15	9.7	148	5.1	112	---	632	63	2.2	1.9	
569	4	F	41	19	19	91	6.5	4.3	121	0.05	0.17	10.0	149	5.2	107	---	922	61	2.2	2.0	
574	4	F	31	16	16	76	5.9	4.1	99	0.05	0.17	9.7	151	4.8	110	---	698	76	1.8	2.3	
578	4	F	35	18	18	66	6.0	4.0	108	0.05	0.16	9.9	150	4.9	109	---	830	67	2.0	2.0	
581	4	F	35	16	16	98	6.5	4.4	118	0.03	0.13	9.8	145	4.6	110	---	382	58	2.1	2.1	
586	4	F	47	16	16	84	6.4	4.4	133	0.05	0.17	12.6	159	4.9	114	---	698	72	2.0	2.2	
587	4	F	97	22	22	81	6.7	4.3	143	0.12	0.35	10.2	155	5.7	111	---	1160	60	2.4	1.8	
593	4	F	45	17	17	102	6.5	4.5	120	0.03	0.12	10.3	148	5.2	110	---	408	58	2.0	2.3	

--- = NO AVAILABLE DATA

Table VI.5a (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 14

A	N	I	T	S	B	G	T	T	C	D	T	N	K	C	C	L	A	P	A
I	M	A	L	N	O	S	E	X	U	P	R	G	I	M	O	U	I	H	L
601	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
77	17	17	17	20	136	7.0	4.5	102	0.06	0.19	10.5	158	5.5	108	---	1028	69	2.5	1.8
87	17	17	17	24	122	6.8	4.4	96	0.05	0.18	10.8	152	4.9	108	---	658	66	2.4	1.8
103	18	18	18	16	217	7.3	4.4	106	0.09	0.25	10.5	147	5.7	110	---	908	61	2.9	1.5
108	20	20	20	10	161	7.6	4.8	128	0.06	0.22	11.1	162	6.1	107	---	948	72	2.8	1.7
113	18	18	18	32	86	6.8	4.5	101	0.14	0.36	12.0	151	6.2	115	---	486	57	2.3	2.0
115	16	16	16	16	116	6.9	4.5	103	0.04	0.16	8.6	141	5.2	109	---	540	60	2.4	1.9
92	16	16	16	14	135	7.5	4.6	113	0.05	0.14	10.4	147	5.0	107	---	632	72	2.9	1.6
104	17	17	17	16	105	6.8	4.4	113	0.12	0.34	10.8	154	5.3	105	---	328	58	2.4	1.8
93	18	18	18	24	221	7.3	4.7	151	0.04	0.17	10.6	153	5.2	110	---	---	67	2.6	1.8
112	17	17	17	---	128	7.0	4.6	93	0.08	0.24	10.5	159	6.1	111	---	908	75	2.4	1.9
67	17	17	17	20	68	6.7	4.4	151	0.04	0.17	10.6	153	5.2	110	---	1000	57	2.3	1.9
96	15	15	15	10	42	6.5	4.4	144	0.03	0.12	10.4	152	5.2	114	---	382	64	2.1	2.1
113	14	14	14	---	39	6.8	4.5	154	0.04	0.14	10.3	158	5.0	114	---	382	72	2.3	2.0
98	16	16	16	16	31	6.3	4.2	128	0.03	0.12	9.6	147	5.1	112	---	276	57	2.1	2.0
90	14	14	14	14	30	6.3	4.3	129	0.03	0.12	9.6	142	4.9	112	---	566	69	2.0	2.1
76	17	17	17	20	35	6.1	4.1	148	0.04	0.14	10.2	157	4.9	110	---	592	55	2.0	2.1
81	16	16	16	16	43	6.5	4.2	126	0.04	0.15	9.9	150	5.3	113	---	672	66	2.3	1.8
106	15	15	15	14	44	6.4	4.3	146	0.04	0.15	9.8	149	5.7	110	---	684	87	2.1	2.0
126	18	18	18	14	69	6.6	4.2	159	0.04	0.18	9.8	149	4.9	110	---	684	60	2.4	1.7
83	16	16	16	20	47	6.4	4.3	163	0.04	0.21	10.3	153	5.1	110	---	684	67	2.1	2.0

--- = NO AVAILABLE DATA

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE(TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 26

A	T	R	S	T	T	C	D	T	N	K	C	L	P	G	A
I	R	G	I	P	A	H	B	R	A						
M	G	P	T	O	R	L	I	I	M	m	I	D	O	L	L
A	G	m	m		B	m	m	m	m		K	H	s	B	/
L	R	y	I	g	g	g	g	g	o	M	M	I	I	a	G
N	O	/	u	/	/	/	/	/	i	I	u	u	/	/	L
O	S	d	/	d	d	d	d	d	/	/	/	/	/	d	O
P	X	i	1	1	1	1	1	1	1	1	1	1	1	1	R
2	1	M	24	157	7.1	4.6	0.06	0.19	10.9	5.0	103	302	316	58	2.5
32	1	M	15	163	6.6	4.4	0.06	0.24	10.1	4.9	103	289	526	69	2.2
40	1	M	16	163	6.6	4.6	0.06	0.22	10.2	4.7	103	137	382	73	2.0
41	1	M	28	135	6.9	4.6	0.08	0.20	9.9	5.4	102	627	948	63	2.3
43	1	M	14	162	6.9	4.7	0.16	0.38	10.2	5.4	101	1338	896	81	2.2
52	1	M	28	93	6.7	4.5	0.05	0.17	9.8	4.4	104	547	170	61	2.2
53	1	M	20	163	6.9	4.6	0.07	0.21	10.7	4.9	100	400	830	69	2.3
55	1	M	20	187	7.1	4.8	0.06	0.25	10.1	4.6	102	222	224	69	2.3
63	1	M	24	168	7.0	4.7	0.10	0.28	9.9	5.1	102	444	896	60	2.3
73	1	M	24	88	7.2	4.8	0.04	0.15	10.7	4.8	105	160	394	58	2.4
93	1	F	60	48	6.7	4.7	0.09	0.24	9.8	4.8	103	---	856	49	2.0
96	1	F	14	120	7.2	4.9	0.13	0.32	10.7	4.6	100	1129	1028	60	2.3
104	1	F	20	35	6.9	4.5	0.04	0.04	10.1	4.9	103	311	302	43	2.4
83	1	F	14	34	6.2	4.5	0.03	0.10	10.2	4.3	105	115	64	60	1.7
126	1	F	15	36	7.4	5.1	0.09	0.05	10.3	4.9	102	427	276	40	2.3
127	1	F	20	45	7.5	4.7	0.03	0.14	10.8	4.7	103	128	236	48	2.8
131	1	F	14	38	7.1	5.0	0.06	0.04	10.1	4.6	107	280	290	66	2.1
135	1	F	16	44	7.2	4.7	0.06	0.21	10.1	5.1	108	930	698	79	2.5
144	1	F	18	51	7.6	5.0	0.12	0.04	10.2	4.8	102	186	328	58	2.6
146	1	F	20	48	7.1	4.4	0.08	0.02	10.3	4.6	105	142	224	43	2.7
150	2	M	15	136	6.9	4.6	0.05	0.21	10.3	4.7	105	169	382	75	2.0
151	2	M	18	213	6.6	4.6	0.13	0.35	10.0	4.8	100	444	540	78	2.0
170	2	M	32	146	7.2	4.5	0.07	0.22	10.9	4.8	102	751	434	72	2.7
181	2	M	24	116	6.9	4.6	0.06	0.18	10.2	4.6	102	146	262	64	2.3
185	2	M	16	139	6.7	4.6	0.06	0.21	10.3	4.4	105	115	236	69	2.1
206	2	M	17	188	7.3	4.4	0.10	0.06	10.7	4.4	102	164	276	69	2.9
212	2	M	32	207	7.3	4.5	0.10	0.28	10.3	5.2	101	1294	580	64	2.8
216	2	M	42	194	6.9	4.6	0.08	0.20	10.5	5.7	104	6000	---	73	2.3
217	2	M	12	66	6.8	4.5	0.04	0.02	9.6	5.5	103	431	1000	51	2.3
219	2	M	17	52	6.8	4.4	0.14	0.35	10.3	5.1	102	5420	1132	67	2.4
233	2	F	16	81	7.4	5.1	0.06	0.19	10.2	5.0	101	311	738	48	2.3
248	2	F	14	41	7.1	4.9	0.04	0.14	10.4	4.9	108	173	302	48	2.2
249	2	F	11	24	5.8	4.2	0.06	0.21	9.6	4.4	105	164	276	69	2.9
250	2	F	16	64	6.6	4.6	0.07	0.20	10.3	4.4	102	676	764	75	2.0
252	2	F	10	32	6.5	4.7	0.03	0.11	10.2	4.7	102	195	354	42	1.8
266	2	F	16	49	6.3	4.3	0.13	0.32	9.8	5.3	105	3460	1000	91	2.0
269	2	F	24	50	7.0	4.7	0.13	0.30	10.0	5.1	105	2980	618	42	2.3
272	2	F	17	54	7.2	4.6	0.06	0.20	10.2	4.8	102	320	342	45	2.6
276	2	F	13	28	6.7	4.6	0.14	0.38	9.6	5.5	105	4419	1186	66	2.1
284	2	F	19	62	7.0	4.8	0.05	0.22	10.5	5.1	105	1280	721	63	2.2

----- = NO AVAILABLE DATA

Table VI.5b (continued)

A	T	R	S	T	T	C	D	T	A	N	K	C	C	L	P	G
I	I	G	G	I	P	H	B	B	A	A	m	I	I	D	h	L
M	R	P	U	R	R	L	I	L	L	C	m	A	P	H	o	D
A	G	T	m	D	B	m	m	m	m	m	m	M	K	H	s	B
L	R	I	q	q	A	g	g	g	m	g	M	e	I	I	I	q
N	Q	/	/	/	/	/	/	/	/	/	/	q	u	u	/	/
O	E	u	d	d	d	d	d	d	d	d	/	/	/	/	/	d
P	x	i	i	i	i	i	i	i	i	i	i	i	i	i	i	r
307	3	M	16	224	7	78	0.07	0.25	10.1	159	5.3	99	311	610	76	2.4
309	3	M	16	236	6	83	0.17	0.39	10.6	149	5.8	100	2710	1278	85	2.2
317	3	M	15	237	7	91	0.09	0.30	10.4	152	4.8	102	266	368	60	2.4
337	3	M	16	153	7	84	0.07	0.20	10.6	150	5.2	100	916	1132	75	2.3
343	3	M	17	132	7	74	0.05	0.18	10.3	156	5.0	100	262	738	67	2.5
345	3	M	16	139	7	75	0.05	0.17	10.5	156	5.1	104	391	684	72	2.6
351	3	M	14	32	7	109	0.12	0.31	10.4	149	5.0	102	493	302	72	2.5
363	3	M	15	251	7	63	0.04	0.13	9.8	155	4.6	100	378	1000	58	2.4
365	3	M	16	122	7	77	0.08	0.24	10.4	154	5.5	100	885	592	52	2.8
372	3	M	18	85	7	74	0.04	0.15	10.3	153	4.8	102	200	302	64	2.6
376	3	F	16	40	6	102	0.04	0.16	10.1	153	4.3	104	151	316	61	1.7
384	3	F	20	69	7	112	0.12	0.28	9.5	151	5.1	103	662	724	51	2.8
398	3	F	14	65	7	114	0.04	0.15	10.7	156	5.0	106	284	526	72	2.3
399	3	F	16	101	6	114	0.06	0.18	10.2	155	4.7	100	333	738	66	2.0
411	3	F	12	54	6	126	0.06	0.22	10.9	152	4.8	103	271	448	58	2.7
421	3	F	15	54	6	92	0.07	0.20	10.3	156	5.0	108	1020	500	69	2.0
430	3	F	14	43	7	125	0.04	0.16	10.6	146	4.4	101	217	394	61	2.5
436	3	F	16	95	6	127	0.08	0.25	10.3	156	5.0	107	970	592	54	2.0
440	3	F	18	10	7	118	0.06	0.20	10.6	147	4.8	100	378	646	73	2.3
447	3	F	18	61	6	105	0.04	0.13	9.9	155	4.4	102	547	724	55	2.1
450	4	M	17	175	7	87	0.08	0.27	10.6	157	4.9	104	1200	842	75	2.8
455	4	M	16	94	7	76	0.07	0.22	10.2	153	5.4	102	627	526	67	2.7
459	4	M	18	207	7	81	0.07	0.22	10.2	155	5.3	103	1110	856	66	2.3
471	4	M	19	107	7	83	0.05	0.17	11.6	151	5.2	100	338	672	78	2.2
479	4	M	17	204	7	85	0.08	0.24	11.0	151	4.5	99	556	830	63	2.5
481	4	M	15	104	6	77	0.08	0.24	10.1	154	5.1	104	---	526	72	2.1
502	4	M	18	88	6	68	0.06	0.21	10.1	153	5.5	103	533	368	61	2.4
505	4	M	17	114	7	80	0.06	0.16	10.1	151	4.9	99	386	552	55	2.4
519	4	M	20	239	6	84	0.17	0.39	10.5	154	4.6	98	2890	1292	79	2.2
521	4	M	16	245	7	106	0.09	0.27	10.1	152	4.8	101	160	408	73	2.6
521	4	M	16	245	7	106	0.09	0.27	10.1	152	4.8	101	160	408	73	2.6
540	4	F	15	24	6	112	0.05	0.13	9.6	151	5.1	106	333	500	66	2.1
550	4	F	14	14	6	131	0.03	0.13	10.5	150	4.7	96	124	118	45	2.1
556	4	F	14	20	7	126	0.08	0.21	10.0	152	4.9	107	3060	658	66	2.4
569	4	F	19	20	7	120	0.06	0.20	10.5	155	5.0	106	970	698	45	2.3
574	4	F	17	34	6	95	0.04	0.11	9.8	150	5.2	104	360	474	72	2.2
578	4	F	20	71	6	112	0.04	0.12	9.9	149	4.7	104	213	276	67	2.3
581	4	F	16	46	6	121	0.04	0.16	10.3	153	5.0	104	195	408	51	2.1
585	4	F	15	66	7	127	0.08	0.24	10.5	149	5.1	103	3860	974	60	2.1
587	4	F	20	97	7	125	0.07	0.20	10.2	153	4.6	100	351	698	49	2.3
593	4	F	17	58	7	123	0.04	0.14	10.8	148	4.4	101	200	354	54	2.8

----- = NO AVAILABLE DATA

----- = NO AVAILABLE DATA

Table VI.5c  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 52

A	N	T	R	G	R	S	T	T	C	D	T	N	K	C	C	L	A
I	T	I	I	L	U	G	I	P	H	R	B	C	A	I	P	D	P
M	R	G	G	U	N	P	R	R	O	L	L	A		K	H	H	O
A	G	T	m	m	m	T	O	O	m	m	m	m	m	m	S	B	B
L	R	I	m	g	g	I	q	q	g	g	g	g	g	g	I	I	I
N	O	S	/	/	/	/	/	/	/	/	/	/	/	/	u	u	g
O	E	d	d	d	d	d	d	d	d	d	d	d	d	d	/	/	/
P	X	i	i	i	i	i	i	i	i	i	i	i	i	i	i	i	i
2	1	M	103	6.6	0.05	0.18	10.1	143	4.6	107	169	329	---	---	---	---	---
32	1	M	187	6.7	0.06	0.19	10.7	145	4.7	110	191	---	---	---	---	---	---
30	1	M	180	6.9	0.07	0.19	11.3	144	4.5	108	169	---	---	---	---	---	---
41	1	M	54	6.4	0.06	0.17	10.2	143	5.0	112	373	553	52	52	52	52	52
43	1	M	64	6.8	0.06	0.20	10.4	137	4.7	108	680	323	---	---	---	---	---
52	1	M	72	6.3	0.03	0.08	10.8	144	4.4	108	53	---	---	---	---	---	---
53	1	M	97	7.0	0.04	0.16	10.2	147	4.9	109	275	520	---	---	---	---	---
55	1	M	147	6.9	0.05	0.11	11.3	145	4.2	109	48	---	---	---	---	---	---
63	1	M	149	6.5	0.06	0.17	10.3	144	4.4	108	106	224	61	61	61	61	61
73	1	M	70	6.6	0.06	0.18	10.7	145	4.9	106	409	290	58	58	58	58	58
93	1	F	37	6.9	0.04	0.11	11.0	141	5.1	109	88	197	34	34	34	34	34
96	1	F	108	7.0	0.04	0.13	10.2	146	4.9	110	253	375	---	---	---	---	---
101	1	F	45	7.4	0.06	0.12	10.9	137	4.3	106	440	191	46	46	46	46	46
83	1	F	92	6.9	0.06	0.18	9.4	137	4.3	110	511	276	---	---	---	---	---
125	1	F	38	6.7	0.05	0.10	10.9	135	3.6	105	35	52	34	34	34	34	34
127	1	F	46	7.3	0.03	0.11	10.5	144	4.3	106	71	---	---	---	---	---	---
131	1	F	52	7.5	0.04	0.09	10.9	145	4.4	109	---	---	---	---	---	---	---
135	1	F	72	6.8	0.04	0.14	10.2	148	4.8	113	231	---	---	---	---	---	---
144	1	F	70	7.2	0.03	0.12	11.0	144	4.6	113	173	---	---	---	---	---	---
145	1	F	51	6.8	0.03	0.11	10.3	144	4.2	106	88	125	---	---	---	---	---
160	2	M	77	198	7.1	0.06	11.4	145	4.7	110	360	---	---	---	---	---	---
161	2	M	84	6.8	0.09	0.23	10.9	146	4.5	120	386	---	---	---	---	---	---
170	2	M	66	6.8	0.05	0.19	10.5	146	4.6	105	120	296	---	---	---	---	---
181	2	M	66	6.5	0.05	0.15	10.6	140	4.7	108	262	230	61	61	61	61	61
185	2	M	141	6.8	0.07	0.19	11.0	147	4.7	110	---	---	---	---	---	---	---
206	2	M	119	6.9	0.05	0.19	10.3	146	4.7	107	120	---	---	---	---	---	---
212	2	M	144	6.5	0.05	0.16	10.3	146	4.6	107	93	250	---	---	---	---	---
216	2	M	127	6.5	0.09	0.20	10.7	149	5.6	---	---	---	---	---	---	---	---
217	2	M	155	6.7	0.07	0.20	11.1	143	4.5	107	115	184	60	60	60	60	60
219	2	M	156	6.8	0.07	0.21	11.1	143	5.0	109	235	164	67	67	67	67	67
233	2	F	86	7.4	0.02	0.05	11.1	142	5.2	106	177	329	34	34	34	34	34
248	2	F	67	7.6	0.03	0.13	11.1	144	4.5	110	120	120	---	---	---	---	---
249	2	F	48	6.9	0.05	0.18	10.3	146	5.6	---	409	349	---	---	---	---	---
250	2	F	67	7.1	0.03	0.14	10.2	145	5.1	108	293	329	---	---	---	---	---
252	2	F	41	6.7	0.06	0.13	10.6	143	4.8	110	80	171	36	36	36	36	36
266	2	F	46	7.2	0.03	0.13	10.1	146	4.8	108	151	362	---	---	---	---	---
269	2	F	48	7.0	0.07	0.16	10.9	137	4.0	107	40	52	46	46	46	46	46
272	2	F	38	6.9	0.04	0.14	10.6	134	4.7	104	191	309	---	---	---	---	---
276	2	F	141	7.3	0.06	0.20	10.8	146	5.3	110	---	---	---	---	---	---	---
284	2	F	92	7.3	0.04	0.14	11.2	148	4.4	108	180	---	---	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.5c (continued)

[illegible]

... - NO AVAILABLE DATA

Table VI.5c (continued)

[illegible]

--- = NO AVAILABLE DATA

Table VI.5d  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 78

A	N	T	S	R	G	T	T	C	D	T	N	K	C	C	L	A	P	G
2	1	M	20	18	102	143	4.9	3.1	0.07	0.22	9.3	5.1	104	289	---	---	---	---
32	1	M	118	16	141	235	7.1	4.1	0.11	0.85	11.4	4.4	110	71	---	---	---	---
40	1	M	79	14	134	318	7.2	4.2	0.17	0.30	11.2	4.4	104	88	---	---	---	---
41	1	M	136	13	136	196	6.8	4.1	0.08	0.25	10.0	4.4	99	53	---	---	---	---
43	1	M	41	14	128	157	6.6	4.0	0.06	0.19	10.2	4.4	104	62	---	---	---	---
52	1	M	123	14	136	6.4	4.1	4.1	0.09	0.18	10.3	4.4	105	48	---	---	---	---
53	1	M	56	13	131	221	6.9	4.2	0.10	0.28	10.5	4.4	104	93	---	---	---	---
55	1	M	36	14	130	154	6.9	4.3	0.09	0.24	10.9	4.5	106	93	---	---	---	---
63	1	M	48	12	107	268	6.5	3.8	0.13	0.37	10.4	4.6	98	2005	---	---	---	---
73	1	M	36	14	86	163	6.5	3.8	0.08	0.25	10.2	4.7	100	62	---	---	---	---
83	1	F	38	14	124	275	6.5	4.4	0.13	0.37	10.3	4.4	104	120	---	---	---	---
93	1	F	33	18	93	170	6.8	4.9	0.08	0.22	10.5	4.4	100	88	---	---	---	---
96	1	F	41	14	114	134	7.0	4.5	0.06	0.20	9.7	4.7	105	200	---	---	---	---
104	1	F	30	14	114	139	6.7	4.6	0.07	0.22	10.2	4.7	102	649	---	---	---	---
126	1	F	28	13	98	95	7.4	5.2	0.09	0.25	10.9	4.4	100	53	---	---	---	---
127	1	F	41	14	98	89	6.9	4.3	0.07	0.21	10.3	4.6	103	266	---	---	---	---
131	1	F	38	14	114	93	7.3	4.6	0.09	0.18	10.5	4.4	104	164	---	---	---	---
135	1	F	46	12	116	108	7.8	4.8	0.09	0.19	10.7	4.8	108	182	---	---	---	---
144	1	F	36	13	95	196	7.0	4.6	0.12	0.08	10.9	4.4	111	80	---	---	---	---
146	1	F	41	13	95	50	6.5	4.3	0.06	0.18	10.2	4.3	103	75	---	---	---	---
160	2	M	36	14	112	124	6.8	4.3	0.14	0.39	11.3	5.8	110	253	---	---	---	---
161	2	M	82	11	122	228	7.0	4.3	0.11	0.24	11.0	4.7	104	204	---	---	---	---
170	2	M	30	12	102	81	6.5	4.2	0.06	0.22	10.1	4.4	102	44	---	---	---	---
181	2	M	33	14	111	92	6.7	4.4	0.06	0.24	10.4	4.4	102	182	---	---	---	---
185	2	M	46	12	115	295	6.8	3.8	0.13	0.24	10.9	5.0	103	658	---	---	---	---
206	2	M	28	19	157	227	7.2	3.8	0.08	0.26	10.7	4.4	102	71	---	---	---	---
212	2	M	46	11	110	157	6.7	4.3	0.06	0.21	10.4	4.4	104	62	---	---	---	---
216	2	M	56	15	108	475	7.6	4.1	0.06	0.22	10.4	4.7	106	115	---	---	---	---
217	2	M	38	13	121	226	6.5	3.8	0.10	0.29	10.1	4.6	100	71	---	---	---	---
219	2	M	36	15	114	322	6.7	3.9	0.11	0.31	10.4	4.6	102	404	---	---	---	---
233	2	F	36	15	93	187	7.2	4.6	0.09	0.29	10.3	4.5	100	115	---	---	---	---
238	2	F	36	13	123	71	7.1	4.5	0.07	0.15	10.7	4.4	108	71	---	---	---	---
249	2	F	38	13	125	55	6.9	4.6	0.05	0.18	10.1	4.4	102	1436	---	---	---	---
250	2	F	36	12	123	92	7.0	4.6	0.06	0.20	10.2	4.4	102	155	---	---	---	---
252	2	F	30	12	126	64	6.9	5.0	0.06	0.20	9.9	4.4	102	320	---	---	---	---
256	2	F	36	12	158	68	6.3	4.4	0.05	0.19	10.2	4.4	104	142	---	---	---	---
263	2	F	30	13	116	117	6.9	4.7	0.06	0.17	10.6	4.5	103	88	---	---	---	---
272	2	F	36	14	119	117	6.6	4.3	0.09	0.25	9.8	4.8	104	151	---	---	---	---
276	2	F	30	16	108	256	7.1	4.4	0.13	0.27	10.5	4.3	108	240	---	---	---	---
284	2	F	33	17	106	240	7.6	4.9	0.16	0.32	11.4	4.6	107	AR	---	---	---	---

--- = NO AVAILABLE DATA

Table VI.5d (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 78

A	N	T	R	S	B	G	T	T	C	D	T	N	K	C	C	L	A	P	G
I	M	R	G	P	U	U	I	P	A	H	B	A	A	T	T	D	H	S	I
A	L	G	T	T	M	M	M	M	R	M	M	M	M	M	M	M	M	M	M
N	O	S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
O	P	K	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
307	3	M	285	38	13	115	7.1	4.3	123	0.17	0.32	151	5.2	108	88	---	---	---	2.8
309	3	M	395	36	13	135	6.9	4.0	225	0.13	0.34	143	4.5	104	173	---	---	---	2.9
317	3	M	327	38	16	133	7.3	4.1	205	0.16	0.27	135	4.5	104	120	---	---	---	3.2
326	3	M	337	46	14	122	6.8	4.3	149	0.13	0.40	144	4.3	104	689	---	---	---	2.5
333	3	M	170	66	17	117	6.8	4.3	149	0.13	0.37	151	4.9	104	2236	---	---	---	2.6
345	3	M	59	59	16	111	6.3	4.1	152	0.06	0.17	158	4.5	114	80	---	---	---	2.2
351	3	M	774	326	36	104	5.4	3.3	338	1.93	7.78	148	4.1	109	191	---	---	---	2.1
363	3	M	121	66	13	120	6.6	4.1	147	0.09	0.33	144	4.3	100	88	---	---	---	2.5
365	3	M	83	33	14	114	6.3	3.8	148	0.05	0.19	144	4.4	102	93	---	---	---	2.5
372	3	M	193	30	11	129	6.6	4.1	205	0.08	0.24	142	4.5	102	62	---	---	---	2.5
376	3	F	86	41	16	130	7.1	4.6	130	0.06	0.16	144	4.3	126	48	---	---	---	1.6
381	3	F	103	36	13	133	5.5	3.9	90	0.07	0.20	141	4.8	102	355	---	---	---	2.4
398	3	F	175	33	14	111	7.2	4.6	121	0.10	0.20	154	4.7	112	222	---	---	---	2.6
399	3	F	79	51	16	94	6.8	4.4	116	0.07	0.26	145	4.7	101	315	---	---	---	2.4
411	3	F	58	38	14	123	6.1	4.0	117	0.04	0.15	142	4.0	104	244	---	---	---	2.1
421	3	F	109	56	18	104	8.3	5.2	162	0.09	0.17	153	4.6	112	231	---	---	---	3.1
430	3	F	107	36	23	108	7.4	5.0	173	0.06	0.19	140	4.2	104	333	---	---	---	2.4
436	3	F	88	56	16	115	7.4	4.7	145	0.10	0.20	146	4.9	110	164	---	---	---	2.7
440	3	F	167	33	15	147	7.5	5.0	135	0.09	0.30	141	4.8	102	115	---	---	---	2.5
447	3	F	89	30	14	84	6.8	4.3	130	0.06	0.21	142	4.5	97	289	---	---	---	2.5
450	4	M	324	41	15	124	7.3	4.3	149	0.20	0.37	145	5.0	106	315	---	---	---	3.0
465	4	M	257	28	22	108	6.2	3.5	229	0.10	0.28	144	5.0	102	106	---	---	---	2.7
469	4	M	189	36	16	92	6.8	3.8	242	0.12	0.23	148	4.6	110	796	---	---	---	3.0
471	4	M	59	41	14	122	6.2	4.0	188	0.04	0.18	143	4.2	105	404	---	---	---	2.2
479	4	M	247	28	19	149	6.8	4.2	145	0.09	0.27	146	5.2	107	373	---	---	---	2.6
481	4	M	128	43	15	126	6.7	4.1	158	0.08	0.26	145	4.9	106	80	---	---	---	2.6
502	4	M	113	46	12	93	6.9	4.4	109	0.10	0.30	144	4.8	100	711	---	---	---	2.5
505	4	M	281	46	14	105	6.6	4.3	165	0.12	0.34	148	5.1	102	591	---	---	---	2.3
519	4	M	342	28	15	107	6.9	4.1	227	0.11	0.35	145	4.5	102	44	---	---	---	2.8
521	4	M	220	46	16	105	6.8	4.3	146	0.09	0.28	146	5.1	100	80	---	---	---	2.5
540	4	F	94	33	16	107	7.2	4.5	166	0.06	0.20	145	4.3	101	137	---	---	---	2.7
550	4	F	130	30	13	139	6.8	4.7	130	0.08	0.26	141	4.6	103	195	---	---	---	2.7
556	4	F	93	36	16	121	7.3	4.6	156	0.07	0.15	153	4.9	112	124	---	---	---	2.7
569	4	F	79	38	16	114	7.3	4.8	146	0.06	0.18	145	4.5	109	280	---	---	---	2.5
574	4	F	79	33	16	84	7.2	4.8	149	0.05	0.16	144	4.0	100	57	---	---	---	2.4
578	4	F	84	38	16	110	6.8	4.6	152	0.08	0.28	144	5.1	102	169	---	---	---	2.2
581	4	F	107	30	16	105	7.4	4.7	136	0.09	0.20	142	4.5	104	102	---	---	---	2.7
586	4	F	48	33	14	139	7.0	4.5	139	0.04	0.20	143	4.4	102	217	---	---	---	2.5
587	4	F	119	33	14	91	6.6	4.3	148	0.07	0.22	143	4.4	98	542	---	---	---	2.3
593	4	F	87	36	14	116	7.5	5.0	164	0.06	0.17	142	4.4	102	146	---	---	---	2.5

--- = NO AVAILABLE DATA

Table VI.5d (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 7R

A	N	T	R	G	B	S	T	T	A	C	D	T	N	K	C	C	L	P	A
I	M	A	L	N	U	G	P	T	R	G	I	R	A	A	I	I	D	H	S
601	613	629	642	644	650	661	665	667	670	683	686	693	701	703	707	726	731	733	736
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
114	82	113	104	104	135	109	107	102	120	89	119	118	125	122	91	101	135	93	87
M	M	M	M	M	M	M	M	M	M	F	F	F	F	F	F	F	F	F	F
30	30	30	25	23	43	38	30	38	30	28	38	38	33	36	36	36	30	33	46
258	211	91	166	186	146	257	153	286	353	57	75	114	51	72	52	175	46	112	87
6.5	6.2	6.9	6.7	6.5	6.8	7.6	6.4	6.7	6.6	7.1	7.2	8.7	7.9	7.8	7.3	7.9	7.3	7.9	7.6
3.8	3.7	4.2	4.1	3.9	4.0	4.3	4.1	3.8	3.8	4.6	4.9	5.4	4.9	4.8	4.9	4.9	4.8	4.8	5.0
165	187	140	173	163	224	161	191	241	204	176	182	193	187	174	191	213	172	204	192
0.27	0.26	0.19	0.30	0.24	0.28	0.13	0.07	0.27	0.12	0.05	0.21	0.30	0.15	0.16	0.18	0.12	0.15	0.08	0.05
10.0	9.9	11.3	10.1	10.4	11.2	11.5	10.6	10.1	10.3	10.1	10.6	11.2	11.0	11.3	10.7	11.7	10.7	11.3	10.4
144	144	152	135	143	150	153	144	145	144	143	143	140	146	145	143	151	142	145	144
4.5	4.1	4.8	4.6	4.5	6.1	4.7	4.2	4.6	4.8	5.0	4.1	4.5	4.2	4.3	4.6	4.4	5.0	4.4	4.4
98	99	109	102	104	106	110	101	98	104	99	104	101	106	104	107	104	106	106	98
240	435	75	124	106	422	75	93	133	137	151	57	1478	97	128	48	71	44	186	80
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2.7	2.5	2.7	2.6	2.6	2.8	3.3	2.3	2.9	2.8	2.5	2.3	3.3	3.0	3.0	2.4	3.0	2.5	3.1	2.6
1.4	1.5	1.6	1.6	1.5	1.4	1.3	1.8	1.3	1.4	1.8	2.1	1.6	1.6	1.6	2.0	1.6	1.9	1.5	1.9

--- = NO AVAILABLE DATA

Table VI.5e

TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 104

A	N	I	T	S	R	G	B	U	G	T	T	C	D	T	N	K	C	C	L	P	A
2	1	M	124	16	25	60	5.9	3.5	149	0.04	0.16	10.2	148	4.8	109	31	---	---	---	2.4	1.5
10	1	M	90	21	43	108	6.1	3.6	132	0.10	0.28	10.6	140	4.5	106	231	---	---	---	2.5	1.3
11	1	M	102	24	36	212	6.4	3.6	194	0.09	0.26	10.1	144	5.1	109	195	---	---	---	2.8	1.3
25	1	M	101	23	43	314	6.6	3.7	185	---	---	11.2	144	4.7	112	57	---	---	---	2.9	1.3
13	1	M	115	15	33	347	6.9	4.0	146	0.14	0.30	11.2	139	4.7	106	93	---	---	---	2.9	1.4
11	1	M	132	11	36	65	7.1	4.4	110	---	---	10.8	145	5.1	112	146	---	---	---	2.7	1.6
13	1	M	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
52	1	M	102	20	30	175	5.9	3.7	148	0.09	0.19	11.0	140	3.9	108	31	---	---	---	2.2	1.7
55	1	M	86	15	36	170	6.5	3.7	167	0.10	0.22	11.2	138	4.8	110	111	---	---	---	2.8	1.3
73	1	M	117	21	25	116	6.8	4.0	197	---	---	11.5	142	4.6	110	80	---	---	---	2.8	1.4
83	1	F	120	15	33	153	7.3	4.6	111	0.07	0.18	10.8	142	4.2	111	26	---	---	---	2.7	1.7
93	1	F	84	17	48	317	7.7	3.9	317	---	---	11.2	140	4.1	105	57	---	---	---	3.8	1.0
96	1	F	115	16	38	123	8.3	4.8	203	0.06	0.13	10.5	144	4.5	108	257	---	---	---	3.5	1.4
104	1	F	128	12	33	88	7.6	4.6	149	---	---	10.7	135	4.4	109	44	---	---	---	3.0	1.5
126	1	F	102	14	38	114	7.1	4.3	137	---	---	11.1	143	4.1	110	35	---	---	---	2.8	1.5
127	1	F	124	14	46	79	7.1	4.3	160	0.04	0.13	10.5	147	4.6	110	53	---	---	---	2.8	1.5
131	1	F	110	18	36	246	7.2	4.5	149	0.09	0.19	11.4	139	4.1	108	124	---	---	---	2.7	1.7
135	1	F	97	12	43	262	8.5	4.7	178	0.19	0.36	11.3	138	4.6	103	556	---	---	---	3.8	1.2
144	1	F	99	15	41	99	7.2	4.4	133	0.07	0.17	10.9	142	3.7	106	106	---	---	---	2.8	1.6
146	1	F	122	14	51	53	6.7	4.4	145	0.04	0.14	10.4	143	4.3	108	48	---	---	---	2.3	1.9
170	2	M	112	14	36	52	6.5	4.0	144	0.06	0.26	10.1	150	4.4	110	71	---	---	---	2.5	1.6
175	2	M	87	22	30	166	8.4	4.3	231	---	---	11.5	140	4.8	109	44	---	---	---	4.1	1.0
185	2	M	81	14	59	33	5.9	3.5	85	0.05	0.13	10.9	141	4.7	110	88	---	---	---	2.4	1.5
186	2	M	96	20	30	386	6.3	3.5	215	0.31	0.33	10.3	139	4.5	109	75	---	---	---	2.8	1.2
198	2	M	97	17	66	60	6.2	3.7	167	0.09	0.33	10.3	143	4.5	108	298	---	---	---	2.5	1.5
202	2	M	90	28	23	378	6.4	3.2	318	0.13	0.24	11.8	140	4.3	108	80	---	---	---	3.2	1.0
216	2	M	40	62	162	21	5.3	3.1	203	0.06	0.20	10.3	152	3.9	117	200	---	---	---	2.2	1.4
217	2	M	101	24	38	535	6.6	3.3	443	---	---	11.2	142	3.8	109	80	---	---	---	3.3	1.0
219	2	M	116	14	33	308	6.7	3.8	299	---	---	11.3	144	4.7	112	769	---	---	---	2.9	1.3
221	2	M	104	20	64	68	6.4	3.6	156	0.10	0.37	10.3	147	5.2	113	128	---	---	---	2.8	1.3
233	2	F	77	13	48	59	7.4	4.5	103	---	---	10.7	143	5.1	112	173	---	---	---	2.9	1.6
238	2	F	119	13	28	252	7.5	4.4	147	0.09	0.21	11.3	140	4.2	106	35	---	---	---	3.1	1.4
249	2	F	124	20	54	55	6.9	4.4	169	0.05	0.20	10.4	147	4.2	111	133	---	---	---	2.5	1.8
252	2	F	132	14	92	55	7.7	4.8	128	---	---	10.3	143	4.3	111	66	---	---	---	2.9	1.7
266	2	F	127	19	48	74	7.5	4.7	110	0.06	0.16	10.4	143	5.0	109	1209	---	---	---	2.8	1.7
269	2	F	119	15	43	83	7.2	4.3	129	---	---	10.7	136	4.0	108	26	---	---	---	2.9	1.5
272	2	F	108	12	74	67	7.5	4.6	118	0.04	0.15	10.4	139	4.4	107	88	---	---	---	2.9	1.6
276	2	F	84	18	41	296	7.6	4.5	161	0.12	0.24	10.9	139	4.2	108	137	---	---	---	3.1	1.5
284	2	F	80	15	38	435	7.9	4.5	177	0.18	0.33	11.3	141	4.3	106	146	---	---	---	3.4	1.3
293	2	F	116	21	46	114	7.4	5.0	103	0.04	0.14	10.8	142	4.5	112	324	---	---	---	2.4	2.1

--- = NO AVAILABLE DATA

A	N	T	G	B	S	T	R	T	C	D	T	N	K	C	C	L	P	G
I	M	R	U	N	P	R	I	P	O	B	I	A	M	M	I	D	O	L
M	A	G	U	N	T	Q	G	R	L	I	L	C	M	M	K	H	S	B
A	L	G	m	m	T	Q	m	Q	B	m	B	A	M	M	M	C	P	B
R	G	I	g	g	A	g	g	B	m	g	I	M	M	M	I	I	I	G
O	S	/	/	/	L	/	/	/	/	/	/	/	/	/	/	/	/	/
N	X	I	d	d	B	d	d	d	d	d	d	I	/	/	/	/	d	B
307	3	M	116	16	48	110	70	4.1	112	0.10	0.29	11.1	5.1	109	235	---	2.9	1.4
308	3	M	101	18	30	441	6.9	3.8	159	0.14	0.33	10.5	142	110	48	---	3.1	1.2
313	3	M	95	15	43	172	6.8	4.1	114	---	---	10.9	144	112	244	---	2.7	1.5
315	3	M	75	25	33	174	6.8	3.6	267	---	---	11.0	143	110	62	---	3.2	1.1
323	3	M	59	112	290	100	5.9	3.6	202	---	---	11.0	159	129	1508	---	2.3	1.6
335	3	M	101	40	92	34	5.6	3.4	194	0.07	0.22	10.1	148	112	137	---	2.2	1.5
360	3	M	102	15	33	159	6.7	3.6	146	0.10	0.26	10.9	138	106	44	---	3.1	1.2
365	3	M	93	28	56	92	6.2	3.2	200	0.09	0.33	10.4	144	113	289	---	3.0	1.1
368	3	M	114	19	33	264	6.7	3.8	176	0.10	0.34	10.7	145	109	57	---	2.9	1.3
375	3	M	112	23	33	223	6.4	3.1	222	---	---	10.9	141	113	75	---	3.3	0.9
376	3	F	144	14	41	59	6.9	4.4	123	0.04	0.12	10.8	141	108	62	---	2.5	1.8
384	3	F	118	13	41	37	6.9	4.3	93	---	---	10.7	142	114	338	---	2.6	1.7
390	3	F	109	13	30	59	6.7	4.2	152	0.04	0.14	10.5	145	108	35	---	2.5	1.7
398	3	F	115	16	43	133	7.3	4.5	120	0.10	0.22	10.9	143	108	111	---	2.8	1.6
409	3	F	105	13	54	105	7.6	4.6	161	---	---	10.9	144	117	2814	---	3.0	1.5
421	3	F	136	14	33	81	7.7	4.7	111	0.05	0.14	11.1	140	109	44	---	3.0	1.6
430	3	F	102	14	36	81	8.0	5.0	193	0.04	0.13	10.9	143	104	177	---	3.0	1.7
436	3	F	133	12	33	79	7.1	4.4	120	0.06	0.16	10.7	140	110	102	---	2.7	1.6
440	3	F	125	25	92	115	7.5	4.6	99	0.06	0.27	10.8	144	118	115	---	2.9	1.6
447	3	F	85	16	54	124	8.7	5.4	160	---	---	11.7	141	107	231	---	3.3	1.6
459	4	M	94	22	28	128	7.0	3.9	116	0.10	0.24	10.7	142	108	244	---	3.1	1.3
477	4	M	97	29	20	458	6.0	3.2	214	0.17	0.28	11.0	138	109	26	---	2.8	1.1
501	4	M	94	23	36	127	6.4	3.0	508	0.13	0.34	10.8	144	107	84	---	3.4	0.9
502	4	M	79	23	30	116	6.7	3.6	196	---	---	11.0	141	112	40	---	3.1	1.2
504	4	M	101	28	100	199	6.7	3.6	237	---	---	10.4	143	111	80	---	3.1	1.2
519	4	M	46	60	100	97	5.4	3.1	121	0.09	0.25	10.5	148	108	106	---	2.3	1.3
520	4	M	89	32	28	385	6.5	3.3	259	0.15	0.26	11.5	143	109	53	---	3.2	1.0
521	4	M	116	19	33	73	6.8	4.1	166	---	---	10.9	143	112	53	---	2.7	1.5
524	4	M	108	24	25	223	6.1	3.4	225	0.07	0.20	10.7	147	108	31	---	2.7	1.3
525	4	M	105	13	48	42	6.3	3.5	81	0.04	0.12	10.1	147	117	48	---	2.8	1.2
540	4	F	142	14	48	65	7.6	4.7	166	---	---	10.7	142	113	391	---	2.9	1.6
550	4	F	121	16	30	64	7.0	4.3	152	0.04	0.12	10.7	141	107	22	---	2.7	1.6
556	4	F	143	14	30	99	7.6	4.4	154	0.06	0.16	11.1	141	109	75	---	3.2	1.4
569	4	F	98	19	46	102	7.9	4.8	138	0.07	0.18	10.3	141	108	169	---	3.1	1.5
574	4	F	124	16	25	44	7.2	4.2	105	---	---	11.1	144	102	62	---	3.0	1.4
578	4	F	113	18	64	84	8.2	4.9	161	---	---	11.4	142	108	62	---	3.3	1.5
581	4	F	119	44	90	14	6.1	4.1	106	0.04	0.13	10.7	143	109	324	---	2.0	2.1
586	4	F	121	19	41	47	7.5	4.5	133	0.05	0.18	10.4	144	107	217	---	3.0	1.5
587	4	F	132	15	38	87	7.9	4.8	168	---	---	11.0	143	111	128	---	3.1	1.5
593	4	F	124	12	38	92	7.1	4.5	168	0.04	0.12	10.4	140	104	120	---	2.6	1.7

----- = NO AVAILABLE DATA

Table VI.5e (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL CLINICAL CHEMISTRY VALUES - TEST WEEK 104

A	N	T	S	R	T	T	C	D	T	N	K	C	C	C	A	P	G	A
I	T	R	G	I	P	P	H	B	B	A	A	I	I	I	L	h	L	A
M	R	G	P	G	R	R	O	L	L	C	m	P	P	P	O	O	O	L
A	L	G	T	m	q	q	m	m	m	m	m	K	K	K	S	S	B	R
L	R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
N	O	S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
O	U	F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
P	U	X	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
601	5	M	41	303	6.8	3.4	334	---	---	11.0	145	4.9	111	244	---	---	3.4	1.0
613	5	M	28	241	5.8	3.2	237	---	---	11.7	147	4.5	114	444	---	---	2.6	1.2
617	5	M	23	403	6.3	3.6	148	0.18	0.33	11.3	143	4.7	114	35	---	---	2.7	1.3
629	5	M	25	325	6.7	3.4	272	0.13	0.26	11.2	145	4.2	108	44	---	---	3.3	1.0
632	5	M	30	309	6.1	3.4	234	0.11	0.31	10.7	145	4.5	110	209	---	---	2.7	1.3
632	5	M	28	186	6.5	3.6	170	0.08	0.21	10.3	147	5.3	110	48	---	---	2.9	1.2
634	5	M	90	173	6.0	3.7	120	0.06	0.19	11.0	146	5.8	114	71	---	---	2.3	1.6
641	5	M	36	441	6.1	3.4	119	0.14	0.24	11.2	143	4.8	115	155	---	---	2.7	1.3
645	5	M	30	303	6.6	2.9	440	---	---	11.6	140	4.4	110	75	---	---	3.7	0.8
667	5	M	76	512	6.6	3.2	474	---	---	12.2	147	4.2	110	306	---	---	3.4	0.9
683	5	F	64	53	7.9	4.7	169	---	---	11.2	143	4.7	112	289	---	---	3.2	1.5
686	5	F	38	89	7.7	4.8	203	0.04	0.15	11.2	146	4.4	109	106	---	---	2.9	1.7
701	5	F	43	117	8.0	4.8	218	0.08	0.16	11.9	138	4.4	105	48	---	---	3.2	1.5
703	5	F	30	113	8.1	4.7	154	0.05	0.14	11.9	140	4.3	106	75	---	---	3.4	1.4
707	5	F	38	49	7.9	4.8	185	---	---	11.4	141	4.0	110	48	---	---	3.1	1.5
726	5	F	28	81	8.3	4.9	194	0.05	0.14	11.6	142	4.5	110	35	---	---	3.4	1.4
731	5	F	30	77	7.9	4.9	217	0.04	0.14	11.1	143	4.4	107	48	---	---	3.0	1.6
733	5	F	41	61	8.0	4.2	142	0.05	0.18	11.1	144	4.5	109	191	---	---	3.8	1.1
736	5	F	64	74	8.7	5.3	222	---	---	11.3	141	4.5	109	160	---	---	3.4	1.6
748	5	F	30	59	7.5	4.8	135	0.03	0.14	10.9	145	5.4	113	75	---	---	2.7	1.8

--- = NO AVAILABLE DATA

Table VI. 6a  
 TWENTY-FOUR MONTH CHRONIC TOXICITY/LARGELY UNEXPOSED STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (G) TEST WEEK 27

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410
1.126	1.175	1.270	1.062	1.228	1.234	1.095	0.965	1.030	1.192	0.870	0.630	0.706	0.611	0.648	0.663	0.656	0.677	0.666	0.692	1.264	1.000	1.076	1.226	0.997	1.316
2.150	2.194	2.067	2.048	2.052	2.009	2.008	2.008	1.936	2.079	1.870	1.905	1.926	2.001	1.915	1.913	2.002	1.887	2.096	2.077	2.215	2.066	2.181	2.029	2.172	2.135
2.702	2.597	2.649	2.603	2.210	2.072	2.275	2.146	2.143	2.655	1.399	1.424	1.423	1.480	1.555	1.419	1.460	1.537	1.531	2.763	2.421	2.620	2.707	2.436	2.905	2.618
0.046	0.040	0.072	0.041	0.044	0.036	0.047	0.045	0.062	0.048	0.043	0.046	0.035	0.048	0.050	0.079	0.047	0.047	0.046	0.040	0.045	0.042	0.040	0.019	0.047	0.076
11.004	11.214	11.304	10.660	9.710	8.592	9.880	9.431	8.385	11.039	---	5.388	6.034	5.324	5.131	5.297	5.817	5.545	5.804	11.328	10.703	11.759	10.817	10.142	12.282	12.844
0.830	0.788	0.823	0.787	0.687	0.748	0.698	0.629	0.672	0.843	0.454	0.472	0.501	0.480	0.471	0.479	0.564	0.516	0.493	0.703	0.720	0.823	0.859	0.703	0.778	0.841
3.338	3.198	3.300	3.341	3.092	3.036	2.585	2.844	2.965	3.285	0.110	0.106	0.098	0.085	0.102	0.113	0.088	0.126	0.096	3.131	3.330	3.311	3.093	2.470	3.374	3.310
0.137	0.137	0.111	0.096	0.122	0.085	0.111	0.129	0.119	0.109	0.128	0.105	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108

NO AVAILABLE DATA

Table VI.6a (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 27

A	N	T	R	R	H	K	A	L	S	G	
I	M	R	O	O	E	I	D	I	P	O	
A	I	S	Y	A	A	D	R	I	N	N	
N	O	S	W	I	R	F	A	V	I	A	
O	U	E	I	N	I	Y	L	F	D	S	
P	X					S	S	R	N	S	
303	3	M	362	2	191	2	623	10	742	3	229
310	3	M	368	2	085	2	417	10	724	2	861
312	3	M	360	2	105	2	760	10	361	3	356
324	3	M	377	2	150	2	808	10	424	3	223
327	3	M	368	2	139	2	574	11	444	3	172
346	3	M	373	2	014	2	476	10	611	0	834
352	3	M	380	2	211	2	824	11	599	0	830
366	3	M	398	2	136	2	690	11	945	3	309
374	3	M	353	2	162	2	410	10	318	0	868
377	3	F	201	1	824	1	379	5	096	0	461
378	3	F	185	1	922	1	342	5	395	0	406
383	3	F	212	1	994	1	641	5	796	0	570
386	3	F	171	1	781	1	476	5	294	0	444
394	3	F	199	1	966	1	386	5	306	0	443
420	3	F	205	2	017	1	634	4	812	0	509
428	3	F	216	1	889	1	630	5	862	0	515
433	3	F	198	2	042	1	649	5	830	0	523
441	3	F	167	1	771	1	331	5	519	0	506
448	3	F	175	1	912	1	465	5	285	0	403
455	4	M	370	2	142	2	588	10	519	0	811
464	4	M	369	2	047	2	625	10	925	0	806
472	4	M	357	2	106	2	578	10	920	0	796
481	4	M	393	2	084	2	689	12	705	0	757
490	4	M	379	2	197	2	969	12	142	0	917
496	4	M	386	2	197	2	782	11	712	0	764
509	4	M	394	2	106	2	635	12	031	0	774
513	4	M	374	2	083	2	820	11	773	0	931
515	4	M	355	2	077	2	649	10	745	0	796
516	4	M	351	2	056	2	520	12	293	0	922
536	4	F	193	1	965	2	679	6	033	0	527
543	4	F	192	1	928	1	591	6	381	0	498
544	4	F	199	1	930	1	560	5	616	0	487
548	4	F	197	2	006	1	568	5	405	0	460
552	4	F	195	1	867	1	480	6	153	0	448
561	4	F	206	1	972	1	601	5	904	0	478
570	4	F	187	1	902	1	533	5	807	0	488
585	4	F	---	1	857	1	646	5	358	0	530
588	4	F	179	1	651	1	389	5	251	0	439
599	4	F	194	1	811	1	581	5	987	0	445
625	5	M	319	2	030	2	678	12	262	1	050
630	5	M	340	2	055	2	726	13	849	1	109

--- = NO AVAILABLE DATA

Table VI. 6a (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 27

A	N	T	R	O	D	Y	W	T	B	R	A	H	K	A	D	R	F	M	L	I	V	E	R	S	P	L	F	A	D	S
641	5	M	346	346	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
643	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
657	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
658	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
663	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
664	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
671	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
674	5	M	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
679	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
689	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
695	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
697	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
713	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
716	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
719	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
723	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
727	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
737	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953
739	5	F	344	344	344	365	342	320	317	2 026	1 891	2 127	1 817	1 773	1 869	1 950	1 833	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953	1 894	1 953

--- = NO AVAILABLE DATA



Table VI (Continued)  
 TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) TEST WEEK 53

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Adipose	Brain	Colon	Heart	Intestine	Liver	Lung	Muscle	Prostate	Spleen	Thyroid	Uterus	Vagina	Testis	Adipose	Brain	Colon	Heart	Intestine	Liver	Lung	Muscle	Prostate	Spleen	Thyroid	Uterus
329	3	M	413	2	220	1	254	2	851	0	041	11	818	0	875	3	315								
332	3	M	439	2	111	1	200	2	035	0	054	13	303	0	810	3	536								
337	3	M	432	2	128	1	361	3	187	0	054	13	455	0	854	3	380								
335	3	M	418	2	171	1	356	3	089	0	046	12	519	0	855	3	291								
338	3	M	438	2	216	1	301	3	168	0	043	13	031	0	873	3	242								
339	3	M	441	2	254	1	377	3	386	0	047	13	936	0	906	3	539								
341	3	M	402	2	206	1	209	2	955	0	042	12	003	0	791	3	162								
344	3	M	434	2	133	1	343	3	307	0	052	14	661	1	043	3	251								
344	3	M	404	2	187	1	203	3	161	0	045	13	226	0	862	3	140								
345	3	F	290	1	912	0	796	1	537	0	051	5	632	0	865	0	090								
346	3	F	252	1	062	0	749	1	834	0	054	7	210	0	553	0	110								
348	3	F	234	1	073	0	816	1	993	0	070	7	592	0	520	0	126								
349	3	F	217	1	931	0	828	1	585	0	046	5	619	0	476	0	082								
345	3	F	243	1	924	0	862	1	903	0	065	7	389	0	501	0	137								
345	3	F	218	2	091	0	832	1	798	0	054	5	942	0	520	0	112								
349	3	F	214	1	935	0	792	1	811	0	048	6	711	0	529	0	100								
341	3	F	202	1	754	0	719	1	532	0	024	6	243	0	455	0	079								
342	3	F	233	1	892	0	732	1	819	0	057	6	762	0	493	0	102								
345	3	F	237	2	013	0	741	2	005	0	051	7	197	0	522	0	083								
343	3	F	423	2	220	1	243	3	183	0	051	13	695	0	908	3	358								
348	3	M	456	2	228	1	243	3	521	0	053	14	348	0	955	3	515								
343	3	M	436	2	250	1	227	3	301	0	042	13	777	0	955	3	365								
343	3	M	406	2	167	1	057	3	212	0	050	13	751	0	854	2	391								
346	3	M	375	2	099	1	178	2	940	0	042	12	199	0	870	3	067								
345	3	M	424	2	138	1	201	3	256	0	051	12	876	0	821	3	354								
346	3	M	342	1	899	0	920	2	407	0	046	10	093	0	689	2	789								
347	3	M	372	2	083	1	185	3	302	0	056	11	976	0	829	3	194								
348	3	M	324	2	000	1	059	2	693	0	049	10	949	0	743	3	189								
347	3	M	407	2	199	1	320	3	176	0	041	13	620	0	830	3	507								
347	3	F	235	2	019	0	839	2	013	0	068	7	382	0	601	0	115								
343	3	F	205	1	917	0	709	1	475	0	042	5	646	0	421	0	099								
341	3	F	199	1	962	0	728	1	672	0	048	6	724	0	467	0	097								
348	3	F	226	1	961	0	777	1	800	0	058	6	786	0	516	0	117								
342	3	F	230	1	980	0	788	1	894	0	051	7	143	0	498	0	094								
345	3	F	251	1	988	0	929	2	040	0	062	7	391	0	570	0	104								
347	3	F	209	1	897	0	667	1	699	0	053	5	939	0	492	0	081								
347	3	F	221	1	899	0	723	1	814	0	051	6	692	0	570	0	090								
345	3	F	190	1	811	0	700	1	616	0	064	5	911	0	416	0	123								
347	3	F	258	1	968	0	798	1	968	0	055	7	511	0	631	0	118								
343	3	M	369	2	013	1	144	2	967	0	039	13	631	1	293	3	091								
345	3	M	362	2	162	1	265	2	822	0	041	13	193	1	190	3	240								

NO AVAILABLE DATA

Table VI.6b (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) -- TEST WEEK 53

A N T I M A L N O	T R G R O S U P X	B O D Y W T	R A I N	H E A R T	K I D N E Y S	A D R E N A L S	L I V E R	S P L E E N	G O N A D S
606	5 M	414	2.073	1.280	3.384	0.045	17.520	1.312	3.502
607	5 M	372	2.180	1.108	3.037	0.035	13.240	1.106	3.218
614	5 M	367	2.121	1.080	2.586	0.039	12.654	1.082	3.265
619	5 M	393	2.140	1.076	3.056	0.042	14.651	1.238	3.492
634	5 M	343	2.071	1.008	2.851	0.036	12.270	1.060	2.921
660	5 M	349	2.121	1.025	2.992	0.042	13.871	1.160	3.194
666	5 M	365	2.089	1.229	3.382	0.044	17.079	1.271	3.153
687	5 F	365	2.174	1.202	3.070	0.047	13.587	1.087	3.358
690	5 F	210	1.928	0.711	1.826	0.048	6.751	0.681	0.112
717	5 F	212	1.897	0.656	1.856	0.040	7.498	0.584	0.101
718	5 F	187	1.958	0.726	1.873	0.053	6.918	0.660	0.096
720	5 F	175	1.834	0.723	1.646	0.040	6.632	0.591	0.090
725	5 F	189	1.894	0.819	1.760	0.053	6.705	0.572	0.080
727	5 F	191	1.898	0.742	1.821	0.060	7.482	0.663	0.116
730	5 F	182	1.848	0.754	1.703	0.038	7.000	0.718	0.091
735	5 F	195	1.953	0.721	1.815	0.055	7.570	0.538	0.104
747	5 F	188	1.946	0.701	1.848	0.045	7.018	0.599	0.098
				0.753	1.655	0.045	6.340	0.546	0.087

--- = NO AVAILABLE DATA

Table VI.6c  
 TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) TEST WEEK 105

A N I M A L I D E N T I F I C A T I O N	T R E A T M E N T G R O U P	B O D Y W E I G H T	S R A T I O N	H E A R T	K I D N E Y	A D R E N A L S	L I V E R	S P L E E N	D O S E
2	1	M	2.371	1.329	3.474	0.062	14.869	2.227	---
3	1	M	2.379	1.339	3.316	0.065	13.009	2.693	---
5	1	M	2.283	1.387	3.547	0.107	14.517	1.291	---
10	1	M	2.295	1.338	3.154	0.067	12.807	1.547	---
15	1	M	2.159	1.192	3.408	0.064	13.427	8.039	---
16	1	M	2.125	1.387	3.465	0.057	21.070	12.570	---
21	1	M	2.246	1.331	3.851	0.071	18.534	7.903	---
23	1	M	2.201	1.322	3.282	0.067	13.494	1.563	---
24	1	M	2.177	1.484	3.263	0.042	12.925	1.635	---
25	1	M	2.176	1.193	3.393	0.075	13.679	1.277	---
26	1	M	2.282	1.314	3.876	0.063	15.627	1.344	---
30	1	M	2.333	1.634	4.616	0.082	18.805	5.643	---
33	1	M	2.332	1.410	3.458	0.058	14.011	1.082	---
35	1	M	2.205	1.453	3.124	0.076	15.156	6.848	---
36	1	M	2.247	1.286	3.101	0.063	12.526	2.046	---
37	1	M	2.438	1.447	3.840	0.083	---	1.759	---
40	1	M	2.262	1.253	3.253	0.060	14.230	1.312	---
41	1	M	2.170	1.278	2.862	0.059	10.861	1.202	---
42	1	M	2.379	1.334	3.489	0.058	15.418	2.615	---
44	1	M	2.167	1.279	3.124	0.062	13.888	3.714	---
48	1	M	2.196	1.225	2.968	0.093	---	14.133	---
49	1	M	2.276	1.380	3.520	0.059	13.908	1.694	---
51	1	M	2.421	1.390	3.061	0.082	12.508	1.591	---
52	1	M	2.224	1.317	4.062	0.072	11.574	1.284	---
55	1	M	2.200	1.594	3.621	0.110	15.546	1.390	---
56	1	M	2.155	1.369	3.140	0.052	12.230	0.579	---
61	1	M	2.093	1.132	2.960	0.058	11.479	1.918	---
62	1	M	2.164	1.289	3.246	0.062	13.148	1.458	---
65	1	M	2.303	1.619	3.724	0.080	19.273	12.619	---
66	1	M	2.149	1.142	2.903	0.050	13.930	1.075	---
73	1	M	1.934	1.157	3.047	0.069	14.412	1.922	---
75	1	M	2.333	1.428	3.431	0.084	12.586	1.187	---
76	1	F	2.001	1.052	2.377	0.059	9.901	0.574	0.109
77	1	F	2.074	1.062	2.254	0.086	9.017	0.942	0.146
81	1	F	2.028	1.025	2.208	0.074	9.158	0.595	0.144
82	1	F	2.057	0.962	2.398	0.074	8.694	0.675	0.104
83	1	F	2.015	1.020	2.128	0.066	8.660	0.625	0.121
84	1	F	2.138	1.048	2.415	0.068	10.879	0.818	0.154
85	1	F	1.942	0.937	1.788	0.068	7.549	0.590	0.149
91	1	F	1.979	1.019	2.120	0.070	8.715	0.574	0.124
92	1	F	2.105	0.906	2.158	0.078	8.768	0.656	0.143

--- NO AVAILABLE DATA

Table VI.6c (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 105

A		N		T		B		R		H		K		A		S		G	
I		M		R		O		R		F		I		D		P		O	
A		L		G		Y		A		A		E		N		L		N	
N		O		S		W		I		R		Y		L		V		A	
O		P		X		T		N		T		S		S		E		D	
93	1	F	256	1.882	1.050	2.380	0.055	9.426	0.659	0.099									
94	1	F	323	2.038	1.011	2.210	0.070	10.092	0.702	0.124									
96	1	F	294	2.040	1.168	2.619	0.062	9.778	0.599	0.163									
99	1	F	278	2.000	0.941	2.085	0.068	9.477	0.713	0.102									
102	1	F	272	1.962	1.090	2.546	0.070	10.686	0.710	0.140									
104	1	F	294	1.985	1.105	2.291	0.062	9.508	0.858	0.122									
107	1	F	270	1.814	0.911	1.985	0.061	8.694	0.545	0.114									
112	1	F	274	2.071	0.947	2.106	0.052	9.061	1.402	0.131									
113	1	F	297	1.943	0.886	2.074	0.063	9.957	0.832	0.152									
114	1	F	269	1.820	1.014	2.497	0.067	10.692	0.663	0.112									
116	1	F	261	1.999	0.848	1.844	0.058	7.437	0.383	0.124									
117	1	F	311	2.004	1.182	2.254	0.061	9.374	0.740	0.129									
120	1	F	301	2.021	1.024	2.540	0.067	9.829	0.710	0.162									
121	1	F	249	1.963	0.878	2.025	0.044	7.843	1.882	0.075									
122	1	F	272	1.936	0.886	1.838	0.065	8.807	5.343	0.102									
123	1	F	308	2.021	1.023	2.148	0.059	9.411	0.696	0.153									
126	1	F	312	1.986	1.812	2.307	0.074	10.492	1.354	0.122									
127	1	F	292	2.034	1.059	2.116	0.068	8.560	0.734	0.148									
128	1	F	290	2.091	0.986	2.163	0.068	10.085	0.829	0.143									
134	1	F	314	2.091	1.122	2.266	0.071	11.751	0.693	0.130									
131	1	F	261	1.952	1.084	2.499	0.060	10.024	1.206	0.115									
135	1	F	276	1.726	0.971	2.446	0.050	9.495	0.619	0.132									
140	1	F	269	1.908	0.964	2.008	0.060	7.290	0.634	0.124									
144	1	F	253	1.997	0.966	2.257	0.066	8.140	0.622	0.116									
146	1	F	274	2.038	0.993	2.012	0.065	7.680	0.540	0.140									
149	1	F	298	2.050	1.005	2.091	0.140	9.674	1.806	0.149									
150	1	F	301	1.990	0.957	2.342	0.065	10.127	0.702	0.124									
151	2	M	436	2.282	1.434	3.460	0.071	12.738	1.063	---									
153	2	M	317	2.106	1.158	2.640	0.063	36.458	---	---									
155	2	M	411	2.198	1.506	3.656	0.077	14.564	1.562	---									
157	2	M	296	2.184	0.982	2.551	0.041	7.905	0.470	---									
158	2	M	378	2.183	1.412	3.198	0.054	12.845	1.671	---									
162	2	M	373	2.210	1.556	2.952	0.056	10.538	1.053	---									
163	2	M	382	2.290	1.343	4.226	0.366	---	3.032	---									
166	2	M	400	2.235	1.364	4.073	0.072	16.848	3.698	---									
170	2	M	379	2.245	1.200	2.979	0.056	11.621	2.174	---									
171	2	M	308	2.139	1.156	2.581	0.054	12.641	5.709	---									
174	2	M	428	2.336	1.468	3.677	0.075	13.807	2.599	---									
175	2	M	340	2.330	1.329	3.900	0.080	15.414	1.014	---									
177	2	M	381	2.134	1.318	3.487	0.076	15.854	1.275	---									
179	2	M	407	2.269	1.355	3.263	0.077	13.728	1.204	---									

--- = NO AVAILABLE DATA

Table VI. 6c (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (G) - TEST WEEK 105

A	N	T	B	R	H	K	A	V	S	G	
I	M	O	R	A	F	I	L	E	L	C	
A	G	D	T	R	R	D	R	R	L	N	
R	S	Y	W	A	A	N	E	V	E	A	
O	F	T	T	J	R	E	A	E	F	D	
U	X			N	T	S	S	R	N	S	
182	2	M	391	2	317	1	320	13	967	1	456
185	2	M	301	2	212	1	479	12	675	3	361
186	2	M	373	2	224	1	334	15	681	1	827
190	2	M	383	2	305	1	228	18	832	3	324
195	2	M	368	2	240	1	941	16	925	2	081
197	2	M	344	2	226	1	281	20	718	9	745
198	2	M	414	2	271	1	353	12	714	6	291
199	2	M	363	2	339	1	414	15	631	1	931
202	2	M	380	2	225	1	602	17	561	1	631
203	2	M	323	2	200	1	315	12	501	0	738
215	2	M	356	2	235	1	280	15	079	1	169
217	2	M	426	2	321	1	544	19	092	1	953
219	2	M	398	2	179	1	349	15	473	1	247
221	2	M	392	2	183	1	292	16	638	4	334
223	2	M	370	2	140	1	627	24	793	4	029
227	2	F	274	2	025	1	046	9	134	1	586
229	2	F	319	2	037	1	050	11	200	0	790
232	2	F	256	1	972	0	909	6	876	0	538
233	2	F	295	2	090	1	184	9	365	0	937
234	2	F	306	2	060	1	034	9	263	1	124
235	2	F	265	1	954	0	942	8	171	0	480
236	2	F	308	2	010	1	125	9	540	0	582
237	2	F	291	1	924	1	027	8	407	0	546
238	2	F	295	2	057	1	120	12	015	0	638
240	2	F	304	1	911	1	069	12	015	0	613
241	2	F	281	1	997	1	129	9	688	0	695
245	2	F	275	1	902	0	996	10	686	5	711
247	2	F	285	2	087	1	117	9	126	1	122
249	2	F	312	2	005	1	018	11	886	1	708
251	2	F	293	2	243	1	135	9	372	0	623
252	2	F	269	1	970	0	941	6	904	0	811
253	2	F	333	2	011	1	161	13	328	3	261
254	2	F	316	2	058	1	006	8	598	0	789
256	2	F	291	2	110	0	979	2	732	0	645
259	2	F	267	2	273	0	971	9	512	0	700
262	2	F	279	2	033	0	836	8	451	0	551
263	2	F	296	2	088	1	022	10	144	2	802
263	2	F	264	2	063	1	038	8	176	0	550
265	2	F	291	1	931	1	038	11	731	2	638
266	2	F	240	1	897	1	053	7	161	1	215
269	2	F	309	2	015	1	225	10	033	0	794

- NO AVAILABLE DATA

Table VI.6c (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 105

A	N	I	T	R	O	R	B	H	K	A	L	S	G		
I	M	R		D	D		R	F	I	D	I	P	O		
A	I	G		Y	Y		R	E	N	R	I	I	N		
N	O	S		W	W		A	A	E	N	V	E	A		
O	U	F		I	I		R	L	Y	L	E	E	D		
P	P	K		T	N		I	S	S	S	R	N	S		
272	2	F		304	1	987	1	215	2	518	10	506	0	112	
271	2	F		278	1	925	1	953	2	217	7	265	0	104	
276	2	F		281	1	139	1	078	2	254	9	288	0	084	
278	2	F		321	1	995	1	006	2	413	14	157	2	216	
283	2	F		288	1	948	1	059	2	450	8	984	1	014	
281	2	F		289	2	019	0	955	2	262	9	852	0	088	
285	2	F		267	1	967	0	984	2	154	7	705	0	092	
288	2	F		265	2	055	1	135	2	421	0	097	0	155	
290	2	F		287	2	013	1	061	2	180	9	588	0	136	
291	2	F		269	2	016	1	038	2	115	9	685	0	112	
292	2	F		325	1	950	1	244	2	598	16	513	8	171	
293	2	F		275	1	118	1	183	2	253	8	745	1	005	
295	2	F		313	2	015	1	038	2	202	9	161	0	166	
296	2	F		273	1	940	1	046	2	300	13	125	5	828	
301	3	M		402	2	337	1	334	4	130	18	818	7	235	
306	3	M		318	2	179	1	151	3	620	12	466	0	995	
307	3	M		383	2	220	1	322	3	084	11	161	1	827	
308	3	M		408	2	294	1	134	3	333	14	569	1	228	
313	3	M		418	2	279	1	217	3	013	11	938	1	022	
315	3	M		416	2	349	1	389	4	369	15	167	1	620	
318	3	M		391	2	198	1	230	4	009	16	085	1	478	
319	3	M		398	2	158	1	367	3	221	12	463	1	680	
321	3	M		435	2	238	1	286	3	272	14	896	1	801	
328	3	M		382	2	030	1	883	3	765	15	587	1	378	
336	3	M		381	2	268	1	206	4	014	---	---	2	259	
340	3	M		398	2	223	1	135	3	262	12	892	1	425	
341	3	M		406	2	238	1	463	3	300	13	934	3	002	
342	3	M		423	2	280	1	429	3	501	14	600	1	839	
347	3	M		369	2	387	1	814	5	797	19	502	1	759	
354	3	M		409	2	337	1	994	4	232	---	---	3	007	
355	3	M		411	2	224	1	414	3	698	16	234	1	333	
356	3	M		369	2	190	1	193	3	353	16	115	1	335	
357	3	M		407	2	238	1	280	3	558	18	980	2	080	
359	3	M		440	2	276	1	416	3	914	15	184	1	755	
360	3	M		402	2	254	1	278	3	668	13	802	2	294	
364	3	M		322	2	251	1	615	5	586	17	294	2	656	
365	3	M		346	2	200	1	466	4	520	19	250	5	584	
368	3	M		396	2	240	1	343	3	641	14	885	1	566	
370	3	M		363	2	191	1	265	3	184	14	350	1	126	
375	3	M		384	2	270	1	687	3	485	15	446	2	198	
376	3	F		269	2	056	1	097	2	096	7	910	1	225	
														0	132

--- = NO AVAILABLE DATA

Table VI.6c (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TPINITROTOLUENE(TNI) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 105

A N I M A L N O D O P X	B D D Y W T	B R A I N	H E A R T	K I D N E Y S	A D R E N A L G L A N D S	L I V E R	S P L E E N	S C O N A D S
379	289	1.952	0.983	2.532	0.052	10.286	0.600	0.098
380	253	2.008	0.935	2.502	0.054	9.777	0.977	0.135
381	276	1.981	1.031	2.116	0.061	8.468	0.600	0.148
382	305	2.003	1.045	2.245	0.060	10.592	0.626	0.099
383	267	2.134	1.104	2.428	0.080	8.885	1.122	0.094
385	257	1.995	1.553	2.495	0.071	9.881	1.017	0.116
389	251	1.978	1.178	2.107	0.067	8.621	1.403	0.147
390	381	2.095	0.979	2.091	0.058	8.547	0.542	0.147
391	300	2.045	1.015	2.191	0.071	9.608	1.071	0.120
392	268	2.026	0.945	2.094	0.057	9.257	0.550	0.101
398	281	2.057	0.964	2.250	0.067	7.879	0.641	0.100
400	247	1.965	0.941	1.979	0.055	7.461	1.197	0.155
401	302	2.083	1.001	2.323	0.071	10.108	1.618	0.093
402	311	1.956	1.087	2.563	0.067	9.930	0.885	0.120
403	290	2.095	0.993	2.140	0.050	7.755	0.588	0.104
405	305	2.048	1.009	2.811	0.068	10.365	0.649	0.108
407	328	2.140	1.132	2.567	0.082	15.105	2.615	0.124
409	325	2.032	1.046	2.385	0.058	9.694	0.889	0.144
410	271	1.991	1.077	2.388	0.071	10.469	0.738	0.234
413	292	2.073	1.025	2.280	0.098	8.776	0.972	0.118
416	312	1.976	1.090	2.535	0.068	10.613	0.963	0.092
418	316	1.968	0.916	2.155	0.052	8.820	0.641	0.103
419	326	1.197	1.056	2.251	0.058	9.219	1.030	0.122
421	290	2.122	0.989	2.131	0.067	8.424	0.710	0.110
422	285	2.067	0.962	2.497	0.060	8.534	0.620	0.141
423	322	1.999	0.943	2.267	0.058	9.887	0.871	0.157
424	363	2.109	1.032	2.507	0.074	12.451	0.933	0.127
426	332	2.042	1.122	2.415	0.068	10.255	0.961	0.131
427	267	2.036	1.020	2.372	0.071	9.823	0.529	0.086
430	252	2.024	0.878	2.030	0.045	7.965	0.758	0.122
431	308	2.007	0.993	2.253	0.051	8.896	0.744	0.109
432	285	2.056	1.063	2.510	0.078	10.760	0.598	0.130
436	277	1.966	0.961	2.171	0.059	8.424	0.559	0.131
440	201	1.961	1.098	2.128	0.054	7.995	0.657	0.120
441	215	2.060	1.020	2.180	0.079	11.118	9.802	0.103
443	270	1.953	1.038	2.571	0.097	11.333	2.224	0.082
445	289	2.090	1.222	2.523	0.062	12.133	2.144	0.149
446	315	2.118	0.996	2.294	0.070	8.884	0.581	0.118
447	285	1.987	0.973	2.294	0.062	8.950	0.440	0.118
451	354	2.200	1.279	3.437	0.079	16.192	1.379	0.118
452	402	2.168	1.245	3.275	0.081	13.490	1.715	0.118

NO AVAILABLE DATA

Table VI.6c (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 105

A	N	T	B	R	H	K	A	L	S	P	G
I	M	R	O	R	E	I	D	I	N	F	O
A	I	G	D	A	A	D	E	V	E	F	N
N	R	S	Y	I	R	N	N	E	A	F	A
O	S	E	W	T	T	S	L	R	N	F	D
U	F	X	T	N	T	S	S	R	N	F	S
P	X										
453	4	M	420	2 183	1 281	3 154	0 057	19 316	1 493		
454	4	M	402	2 230	1 593	3 825	0 066	16 275	1 364		
459	4	M	346	2 174	1 311	3 126	0 055	12 412	1 380		
467	4	M	370	2 245	1 280	3 665	0 062	14 555	1 366		
474	4	M	345	2 285	1 397	3 699	0 065	21 074	6 912		
475	4	M	386	2 345	1 442	3 780	0 074	14 482	1 552		
477	4	M	381	2 196	1 526	3 740	---	18 415	1 695		
478	4	M	360	2 125	1 525	3 481	0 093	16 672	8 081		
481	4	M	359	2 103	1 404	3 749	0 071	15 436	1 469		
487	4	M	383	2 379	1 403	3 749	0 061	20 885	6 335		
488	4	M	349	2 176	1 762	2 820	0 080	11 343	1 191		
489	4	M	417	2 165	1 054	2 238	0 058	13 328	---		
493	4	M	344	2 290	1 257	3 175	0 063	15 850	2 860		
494	4	M	298	2 136	1 476	4 532	0 091	20 853	12 753		
499	4	M	439	2 441	1 576	3 230	0 058	16 887	5 350		
502	4	M	392	2 241	1 561	4 151	0 096	---	1 587		
504	4	M	363	2 221	1 279	3 595	0 062	16 180	2 877		
507	4	M	336	2 211	1 409	4 002	0 077	16 351	2 280		
510	4	M	344	2 076	1 606	3 545	0 068	13 767	1 408		
512	4	M	355	2 254	1 545	5 495	0 077	19 123	1 422		
514	4	M	241	2 104	2 145	3 907	0 107	11 382	2 089		
518	4	M	348	2 324	1 550	4 761	0 075	22 002	6 476		
519	4	M	268	2 159	1 533	5 351	0 147	20 703	6 624		
520	4	M	393	2 299	1 499	---	0 088	18 724	2 579		
521	4	M	332	2 158	1 264	3 200	0 059	13 111	1 345		
523	4	M	352	2 144	1 228	3 710	0 053	16 957	1 596		
524	4	M	366	2 179	1 237	3 667	0 050	16 485	1 501		
525	4	M	231	2 292	1 293	2 799	0 076	9 372	0 719		
528	4	F	244	1 788	1 006	2 038	0 067	9 008	0 695		
530	4	F	187	1 913	0 955	2 371	0 064	8 101	0 430		0 059
532	4	F	250	2 092	0 998	2 382	---	7 141	0 795		0 131
533	4	F	259	2 136	0 924	2 186	0 058	8 927	1 204		0 153
535	4	F	300	1 960	1 042	2 258	0 057	8 735	0 665		0 084
537	4	F	288	2 022	0 982	2 123	0 066	8 968	0 620		0 153
539	4	F	247	2 130	1 489	2 513	0 055	9 391	1 002		0 089
540	4	F	279	1 950	0 999	2 374	0 064	9 042	1 058		0 107
541	4	F	282	2 048	1 047	2 284	0 057	10 160	0 767		0 106
545	4	F	166	1 950	1 379	2 684	0 060	11 308	5 549		0 061
546	4	F	210	1 803	0 923	2 654	0 058	10 591	0 803		0 077
547	4	F	269	2 033	0 948	2 262	0 056	8 007	0 611		0 094
549	4	F	231	2 004	0 929	2 322	0 061	8 990	0 560		0 101

--- = NO AVAILABLE DATA

Table VI.6 (continued)  
 TWENTY FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
 TRINITROTOLUENE (TNT) IN THE FISCHER 344 RAT  
 INDIVIDUAL ORGAN WEIGHT VALUES (g) - TEST WEEK 105

A	N	T	B	R	H	K	A	L	S	G
I	M	O	R	F	I	D	D	T	P	O
A	L	D	L	E	N	N	E	V	E	N
N	R	Y	A	A	C	V	A	F	E	A
O	S	W	T	R	T	S	I	R	E	D
U	E	T	N	T	S	S	S	N	N	S
P	X									
550	4	F	297	2.047	1.141	2.552	0.083	10.085	0.617	0.138
553	4	F	271	2.031	1.018	2.497	0.078	11.913	1.020	0.133
554	4	F	269	1.938	0.917	2.230	0.053	8.060	0.604	0.123
556	4	F	280	1.985	0.952	2.166	0.071	8.364	0.629	0.137
558	4	F	271	2.037	1.005	2.354	0.069	8.765	0.644	0.144
559	4	F	260	2.071	1.063	2.213	0.063	7.906	0.575	0.132
562	4	F	270	2.045	0.892	2.073	0.055	8.213	0.850	0.130
563	4	F	284	2.046	0.960	2.452	0.062	9.341	0.621	0.116
564	4	F	284	2.088	0.986	2.293	0.057	9.710	0.678	0.110
565	4	F	277	1.987	0.942	2.237	0.061	9.344	0.690	0.111
569	4	F	226	1.839	0.790	2.005	0.051	7.273	0.536	0.117
571	4	F	305	2.004	0.992	2.308	0.060	8.687	0.650	0.093
572	4	F	273	1.966	1.112	2.502	0.064	13.303	0.672	0.112
573	4	F	282	2.031	1.027	2.362	0.075	9.830	0.737	0.145
574	4	F	211	1.930	1.001	2.482	0.112	11.921	2.343	0.067
575	4	F	256	1.941	1.077	2.147	0.053	9.614	0.645	0.115
576	4	F	227	2.030	0.925	2.318	0.086	12.455	1.930	0.089
577	4	F	291	2.019	1.123	2.599	0.061	9.571	0.624	0.115
578	4	F	262	1.952	1.121	2.150	0.076	9.484	0.751	0.174
579	4	F	142	1.909	0.644	1.557	0.038	4.216	0.312	0.060
584	4	F	223	1.962	0.983	2.282	0.062	7.692	0.492	0.110
586	4	F	238	2.015	0.861	2.170	0.046	7.347	0.680	0.120
587	4	F	298	2.018	1.101	2.501	0.084	11.345	1.001	0.111
589	4	F	292	1.982	1.005	2.362	0.056	9.234	0.804	0.093
590	4	F	285	1.967	1.002	2.211	0.099	8.895	0.617	---
591	4	F	276	2.064	0.997	2.230	0.058	9.136	0.677	0.107
592	4	F	274	2.046	1.037	2.411	0.055	9.897	0.678	0.123
593	4	F	269	2.039	0.950	2.303	0.067	9.160	0.659	0.131
594	4	F	271	2.007	0.991	2.237	0.056	10.290	1.775	0.107
596	4	F	312	1.969	0.998	2.401	0.055	10.216	0.780	0.095
597	4	F	249	1.989	1.036	2.315	0.047	8.239	0.648	0.111
598	4	F	274	1.925	0.966	2.437	0.050	8.163	0.747	0.117
600	4	F	306	1.977	1.135	2.408	0.080	9.968	2.465	0.157
601	5	M	309	2.188	1.157	4.200	0.054	---	1.352	---
602	5	M	339	2.181	1.322	3.893	0.059	17.843	1.700	---
604	5	M	269	2.181	1.215	2.880	0.085	13.750	1.000	---
608	5	M	290	2.290	1.280	3.759	0.073	16.572	1.379	---
609	5	M	332	2.274	1.144	3.065	0.047	12.579	1.149	---
610	5	M	313	2.139	1.190	2.853	0.063	14.904	1.357	---
611	5	M	333	2.230	1.222	3.356	0.052	15.434	1.291	---
612	5	M	316	2.200	1.387	4.061	0.071	18.398	1.028	---

--- NO AVAILABLE DATA

Table VI.6c (continued)

N	I	T	B	R	H	K	A	L	I	S	P	G
M	A	L	R	S	O	F	X					
613	5	M	282	2 073	1 845	4 170	0 193	14 473	0 972			
616	5	M	216	2 020	1 450	2 894	0 090	11 299	0 312			
617	5	M	302	2 151	1 384	3 171	0 049	12 590	1 164			
618	5	M	225	2 119	1 220	3 162	0 076	13 062	0 643			
620	5	M	326	2 091	1 151	3 223	0 050	15 176	1 549			
621	5	M	238	2 120	1 148	3 756	0 066	14 925	0 987			
623	5	M	320	2 182	1 257	3 201	0 052	14 828	1 272			
624	5	M	321	2 085	1 094	2 930	0 052	16 273	1 137			
626	5	M	213	1 900	1 125	2 767	0 055	15 344	0 624			
629	5	M	307	2 294	1 231	3 613	0 086	16 296	1 284			
632	5	M	309	2 113	1 102	3 425	0 075	17 516	1 195			
635	5	M	286	2 163	1 151	4 164	0 049	13 056	1 145			
637	5	M	343	2 167	1 389	3 329	0 058	15 148	1 380			
638	5	M	309	2 211	1 089	3 036	0 067	14 712	1 291			
640	5	M	313	2 148	1 132	3 367	0 053	14 236	1 203			
642	5	M	215	2 254	1 118	3 350	---	17 280	0 848			
645	5	M	251	2 090	1 113	3 462	0 067	16 354	1 168			
646	5	M	318	2 201	1 241	3 074	0 051	14 035	1 261			
647	5	M	323	2 076	1 214	3 192	0 057	14 043	1 390			
648	5	M	309	2 297	1 124	3 279	0 055	15 001	1 183			
651	5	M	326	2 218	1 342	3 285	0 061	15 913	1 570			
652	5	M	323	2 177	1 290	3 546	0 065	15 492	1 305			
653	5	M	216	2 225	0 986	2 795	0 068	10 452	0 812			
656	5	M	188	1 962	1 169	2 367	0 064	12 379	0 410			
659	5	M	310	2 202	1 213	4 005	0 064	18 156	1 417			
662	5	M	274	2 238	1 228	4 161	0 076	17 614	1 104			
665	5	M	286	2 231	1 270	4 175	0 093	---	1 256			
667	5	M	285	2 065	1 270	4 398	0 068	15 794	1 309			
669	5	M	314	2 268	1 510	3 503	0 081	16 568	1 419			
673	5	M	338	2 090	1 262	3 362	0 046	17 306	1 471			
676	5	F	254	1 979	0 889	2 264	0 050	10 500	0 720			
677	5	F	219	2 095	0 874	2 068	0 063	8 564	0 817			
680	5	F	320	1 951	0 993	2 472	0 071	11 399	0 998			
681	5	F	220	1 922	0 881	1 968	0 038	9 574	0 530			
682	5	F	208	2 035	0 894	2 187	0 044	7 860	0 816			
683	5	F	212	1 768	0 808	1 998	0 052	7 999	1 065			
684	5	F	250	1 961	0 893	2 561	0 062	10 713	0 832			
686	5	F	225	1 991	0 880	2 134	0 056	8 693	0 713			
688	5	F	237	1 939	0 946	2 129	0 046	9 226	0 729			
691	5	F	226	2 057	0 945	2 077	0 051	8 856	0 894			

----- = NO AVAILABLE DATA

----- - NO AVAILABLE DATA

APPENDIX VII  
CHLORTETRACYCLINE CONTENT OF 5002

# CHLORTETRACYCLINE CONTENT OF 5002

## ANALYTICAL RESULTS (ppm)

<u>SOURCE OF ANALYSIS</u>	<u>SAMPLE IDENTIFICATION</u>			
	A	B	C	D
FEL ANALYTICAL *			9.9	
FEL ANALYTICAL *	12	9.9	7.7	10.2
SCIENTIFIC ASSOCIATES**	1.76	1.72	1.20	1.64
WOODSEN-TENENT LABS, INC.**	N. D.	N. D.	N. D.	N. D.
HARRIS LABS, INC.**	<0.05	<0.05	<0.05	<0.05

Sample A = Lot No Sept.18.81

Sample B = Lot No Dec.10.81

Sample C = Lot No March.24.82 (Original lot)

Sample D = Lot No Sept.10.82

\*Method: Snell and Snell, Colorimetric method of analysis.  
Vol. IVAAA, pg. 184

\*\*Method: AOAC, XIII, pg.722-723, paragraph 42.211-42.214;

N. D. - None Detected

APPENDIX VIII  
NITRATE, NITRITE AND MERCURY CONTENT  
OF 5002

# NITRATE, NITRITE, AND MERCURY CONTENT OF 5002

LOT NUMBER	NITRATES(ug/g)	NITRITES(ug/g)	MERCURY(ug/g)
JAN 15-812E	32	<0.1	0.02
FEB 03-811B	9.2	<0.1	0.04
JAN 21-811N	32	<0.1	0.11
MARCH 05-811A	13	<0.1	0.14
MARCH 17-811M	<3	<0.1	0.02
APRIL 30-811D	<3	0.3	0.01
MAY 13-812K	15.3	0.2	<0.06
JUNE 01-812D	<2.0	0.6	<0.1
AUG 04-811F	28	0.5	0.03
SEPT 16-811A	<2.0	<0.1	0.05
OCT 07-811J	6.3	0.2	0.15
NOV 12-811G	16	0.4	<0.02
DEC 10-811A	12	<0.2	0.09
JAN 22-821K	14	<0.2	<0.05
FEB 09-821C	7.2	0.4	0.05
MARCH 24-822G	19.0	0.24	<0.05
MAY 12-822F	16.4	0.1	<0.05
JUNE 04-821K	17.0	0.1	<0.05
JULY 29-821G	11.8	0.1	0.06
SEPT 10-822J	5.0	0.1	0.2
OCT 20-822L	4.7	0.1	0.2
NOV 23-821M	15.4	0.2	0.05

APPENDIX IX  
CHICAGO WATER CHEMICAL ANALYSIS

CITY OF CHICAGO DEPARTMENT OF WATER BUREAU OF WATER OPERATIONS  
 WATER PURIFICATION DIVISION WATER PURIFICATION LABORATORY  
 COMPREHENSIVE CHEMICAL ANALYSIS ANALYSIS COMPLETED March 15, 1952

PARAMETER	IPCB MCL 1979	DETERMINED AS	STREET NUMBER	SOUTH WATER DISTRICT		CENTRAL AND NORTH WATER DISTRICTS	
				RAW CRIB	COMPOSITE DISTRIBUTION	RAW CRIB	COMPOSITE SAMPLES
TEMPERATURE		°C	00010	3	7	5	3
TURBIDITY	1	NTU	00076	5.0	0.15	0.20	0.10
THRESHOLD ODOR, STRAIGHT	3	TOM	00086	20	10	10	10
THRESHOLD ODOR, DECHLORINATED	3	TOM		14	14	14	14
COLOR	15	PCU UNITS	00080	2	0	0	0
PH	8.5-8.5	STD UNITS	00400	8.3	8.3	8.3	8.5
ALKALINITY, PMTH		CaCO <sub>3</sub>	00415	0	0	0	1
ALKALINITY, TOTAL		CaCO <sub>3</sub>	00410	109	115	114	118
SULFATE	250	SO <sub>4</sub>	00945	25.0	27.5	23.0	24.5
CHLORIDE	250	Cl	00940	10.5	11.5	9.2	10.2
FLUORIDE	1.8	F	00950	0.16	0.90	0.13	0.97
PHOSPHATE, TOTAL		PO <sub>4</sub>	00650	0.05	0.02	0.07	0.02
PHOSPHATE, DISSOLVED		PO <sub>4</sub>	00653	0.01	0.01	0.01	0.01
SILICA		SiO <sub>2</sub>	00956	0.9	1.1	1.0	1.2
CALCIUM		Ca	00916	38	41	40	41
MAGNESIUM		Mg	00927	10	10	10	10
POTASSIUM		K	00937	1.9	1.7	1.8	1.5
SODIUM		Na	00929	5.2	5.2	5.9	5.8
RESIDUE, TOTAL		TOT. SOLIDS	00900	179	175	182	187
RESIDUE, FILTRABLE		DISS. SOLIDS	00915	176	172	182	181
OXYGEN, DISSOLVED	800	O <sub>2</sub>	00300	14.1	13.8	14.2	13.5
OXYGEN DEMAND, CHEMICAL		O	00335	15.4	6.5	15.4	7.2
NITROGEN, AMMONIA		N	00610	<0.01	<0.01	<0.01	<0.01
NITROGEN, NITRATE/NITRITE	1/10	N	00630	0.27	0.26	0.22	0.25
NITROGEN, ORGANIC		N	00605	0.04	0.10	0.10	0.06
CYANIDE	0.2	CN	00720	<0.002	<0.002	<0.002	<0.002
FOAMING AGENTS	0.5	MBAS	38260	<0.05	<0.05	<0.05	<0.05
HARDNESS		CaCO <sub>3</sub>	00900	136	144	141	141
ALUMINUM		Al	01150	<10	230	<10	185
ARSENIC	50	As	01002	<1	<1	<1	<1
BARIUM	1000	Ba	01007	<5	<5	<5	<5
BORON	1000	B	01022	<2	<2	<2	<2
CADMIUM	10	Cd	01027	<1	<1	<1	<1
CHROMIUM	50	Cr	01034	<1	<1	<1	<1
COBALT		Co	01037	<1	<1	<1	<1
COPPER	5000	Cu	01042	2	<1	<1	<1
IRON, TOTAL	1000	Fe	01045	105	10	<10	10
LEAD	50	Pb	01051	5	<1	<1	<1
LITHIUM		Li	01132	2	8	2	2
MANGANESE	150	Mn	01055	4	1	2	1
MERCURY	2	Hg	71900	<0.01	<0.01	<0.01	<0.01
NICKEL		Ni	01067	<1	<1	<1	<1
STRONTIUM		Sr	01082	180	130	130	130
ZINC	8000	Zn	01092	3	<1	<1	<1
PHENOL-LIKE SUBSTANCES	1	PHENOL	32730	<1	<1	<1	<1
SILVER	50	Ag	01077	<1	<1	<1	<1
SELENIUM	10	Se	01145	<1	<1	<1	<1
RADIOACTIVITY		BETA PCT	03501	<1	<1	<1	<1
SATURATION INDEX	50	(LI)		-0.13	+0.06	+0.07	+0.13

WATER PURIFICATION LABORATORIES  
 CHIEF WATER CHEMIST  
 ANALYST  
 ENGINEER OF WATER PURIFICATION

APPENDIX X  
OPHTHALMOLOGY NARRATIVE REPORT

### SUMMARY OF OPHTHALMIC FINDINGS

Ocular conjunctivitis, discharge, keratitis, and corneal scarring/pigmentation were observed in all test groups at similar frequencies, and were not considered to be treatment-related. Throughout the study, a number of animals used for orbital bleeding demonstrated ocular lesions. The lesions in these animals included anophthalmia, phthisis, anterior and posterior synechiae, uveitis, cataracts and retinal vascular attenuation. At all test weeks observed for ophthalmic abnormalities (25, 51, 77, and 103), 50% or greater of the animals observed with ophthalmic lesions had been used for orbital bleeding. Ocular trauma or penetration at the time of bleeding may have been responsible for the aforementioned abnormalities. Statistical evaluation of the incidence of cataracts seen during Test Week 103 of animals used versus not used for orbital sinus bleedings demonstrated that the bleeding procedure did not appear to be responsible for cataract formation (Table 1).

At Test Week 103, a higher incidence of cataracts was observed in all test groups. Although the incidences of cataracts among TNT-treated animals were greater than for control animals, they were not significantly different except for low dose females (Table 2). The lack of a dose-response relationship suggests that this observation is spurious. Many of these lesions were focal opacities on the posterior lens capsule associated with vitreal precipitates and can be considered aging changes.

In summary, ocular abnormalities observed in this study appeared to occur randomly with respect to control and treatment groups, and were not considered to be treatment-related.

C. Sue West, D.V.M.

C. Sue West, D.V.M.  
Diplomate, American College  
of Veterinary Ophthalmologists

Date 12-6-84

Table 1

TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY  
OF TRINITROTOLUENE (TNT) IN THE B6C3F1 HYBRID MOUSE

EFFECT OF ORBITAL SINUS BLOOD COLLECTION ON CATARACTFORMATION SEEN AT TEST WEEK 103

	Cataracts		No Cataracts		Total Animals	
	M	F	M	F	M	F
Animals used for orbital sinus blood collection*	15	17	71	73	86	90
Animals not used for orbital sinus blood collection*	20	14	67	77	87	91

\*Differences not significant at  $p < 0.05$

Table 2

TWENTY-FOUR MONTH CHRONIC TOXICITY/CARCINOGENICITY STUDY OF  
TRINITROTOLUENE (TNT) IN THE B6C3F1 HYBRID MOUSE

## INCIDENCE OF CATARACTS AT TEST WEEK 103

<u>Dose (mg/kg/day)</u>	<u>Males</u>	<u>Females</u>
0.0	7/43	3/41
1.5	8/44	11/43*
10.0	6/43	8/47
70.0	13/43	9/50

\* Significantly different from appropriate control group,  $p < 0.05$ .

Study Number L06116-11  
 Test Article: TNT  
 Species: B6C3F1 Mice

# OPHTHALMIC INCIDENCE TABLE

SUMMARY - TEST WEEK 25

LESION	Dose (mg/kg/day)				Males		Females	
	0.0	1.2	10.0	20.0	0.0	1.2	10.0	20.0
Blepharitis	1/75	0/75	0/73	1/75	0/74	0/74	0/75	0/75
Ocular Discharge	0/75	0/75	1/73	1/75	0/74	0/74	0/75	1/75
Conjunctivitis	2/75	1/75	1/73	2/75	0/74	0/74	1/75	2/75
Proptosis	0/75	0/75	0/73	0/75	0/74	0/74	1/75	0/75
Enophthalmia	2/75	1/75	1/73	2/75	0/74	0/74	1/75	2/75
Keratitis	1/75	1/75	0/73	0/75	1/74	0/74	0/75	0/75
Corneal Scar/Pigmentation	1/75	0/75	1/73	0/75	2/74	0/74	2/75	1/75
HypHEMA	0/75	0/75	0/73	0/75	0/74	0/74	1/75	0/75
Iritis/Anterior Uveitis	0/75	0/75	1/73	0/75	0/74	0/74	0/75	0/75
Anterior Synechia	1/75	1/75	1/73	0/75	0/74	0/74	0/75	0/75
Posterior Synechia	1/75	0/75	1/73	0/75	0/74	0/74	0/75	0/75
Dilated Pupil	0/75	0/75	0/73	0/75	1/74	0/74	0/75	0/75
Cataract	1/75	0/75	3/73	0/75	0/74	0/74	0/75	0/75
Retinal Vascular Attenuation	1/75	0/75	0/73	0/75	0/74	0/74	1/75	0/75
Fundus - Reflex	0/75	0/75	0/73	0/75	1/74	0/74	0/75	0/75
Bled - Orbital Sinus	28/75	26/75	26/73	28/75	28/74	26/74	28/75	28/75

Study Number L06116-11  
 Test Article: TNT  
 Species: B6C3F1 Mice

# OPHTHALMIC INCIDENCE TABLE

SUMMARY - TEST WEEK 51

LESION	Dose (mg/kg/day)							
	Males				Females			
	0.0	1.2	10.0	70.0	0.0	1.2	10.0	70.0
Ocular Discharge	1/63	0/63	0/62	1/63	0/64	0/64	0/64	1/64
	2/63	0/63	1/62	2/63	0/64	0/64	1/64	2/64
	0/63	0/63	0/62	0/63	1/64	0/64	0/64	0/64
Keratitis	2/63	1/63	1/62	2/63	2/64	0/64	2/64	2/64
	0/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
	0/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
Corneal Scar/Pigmentation	1/63	0/63	1/62	0/63	1/64	0/64	0/64	0/64
	1/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
	1/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
Anterior Synechia	1/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
	1/63	0/63	1/62	0/63	0/64	0/64	0/64	0/64
	0/63	0/63	0/62	0/63	1/64	0/64	0/64	0/64
Posterior Synechia	2/63	0/63	3/62	1/63	0/64	0/64	0/64	1/64
	0/63	0/63	0/62	0/63	0/64	0/64	1/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
Dilated Pupil	2/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
Cataract	2/63	0/63	3/62	1/63	0/64	0/64	0/64	1/64
	0/63	0/63	0/62	0/63	0/64	0/64	1/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
Retinal Vascular Attenuation	0/63	0/63	0/62	0/63	1/64	0/64	0/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
	0/63	0/63	0/62	0/63	0/64	0/64	0/64	0/64
Fundus - Reflex	27/63	26/63	26/62	25/63	28/64	25/64	25/64	27/64
	27/63	26/63	26/62	25/63	28/64	25/64	25/64	27/64
	27/63	26/63	26/62	25/63	28/64	25/64	25/64	27/64

Study Number L06116-11  
 Test Article: TNT  
 Species: B6C3F1 Mice

# OPHTHALMIC INCIDENCE TABLE

## SUMMARY - TEST WEEK 77

LESION	Dose (mg/kg/day)				Males		Females	
	0.0	1.2	10.0	70.0	0.0	1.2	10.0	70.0
Ocular Discharge	0/52	0/50	0/52	0/50	0/53	0/53	1/53	1/52
Orbital Hemorrhage	0/52	0/50	0/52	0/50	0/53	0/53	1/53	0/52
Phthiasis	2/52	1/50	3/52	2/50	0/53	0/53	2/53	2/52
Keratitis	0/52	0/50	0/52	0/50	1/53	0/53	0/53	0/52
Corneal Scar/Pigmentation	3/52	0/50	6/52	6/50	3/53	4/53	5/53	5/52
Anterior Synechia	1/52	0/50	0/52	0/50	1/53	0/53	0/53	0/52
Posterior Synechia	1/52	0/50	2/52	0/50	0/53	0/53	0/53	0/52
Dilated Pupil	0/52	0/50	0/52	0/50	1/53	0/53	0/53	0/52
Cataract	2/52	1/50	1/52	2/50	2/53	3/53	0/53	0/52
Vitreous Condensation	0/52	0/50	1/52	1/50	1/53	0/53	0/53	0/52
Retinal Vascular Attenuation	0/52	0/50	0/52	0/50	0/53	0/53	1/53	0/52
Fundus - Reflex	0/52	0/50	0/52	0/50	1/53	0/53	0/53	0/52
Bled - Orbital Sinus	26/52	23/50	25/52	23/50	26/53	23/53	23/53	24/52

Study Number L06116-11  
 Test Article: TNT  
 Species: B6C3F1 Mice

OPHTHALMIC INCIDENCE TABLE

SUMMARY - TEST WEEK 103

LESION	Dose (mg/kg/day)							
	Males				Females			
	0.0	1.5	10.0	70.0	0.0	1.5	10.0	70.0
Ocular Discharge	0/43	0/44	0/43	1/43	0/41	0/43	0/47	2/50
	0/43	0/44	1/43	0/43	0/41	0/43	0/47	2/50
	3/43	1/44	3/43	5/43	0/41	1/43	2/47	3/50
	0/43	1/44	0/43	0/43	0/41	0/43	1/47	0/50
Corneal Scar/Pigmentation	2/43	1/44	6/43	7/43	6/41	12/43	12/47	11/50
Anterior Synechia	0/43	1/44	1/43	1/43	1/41	0/43	1/47	0/50
Posterior Synechia	0/43	0/44	0/43	0/43	0/41	0/43	0/47	0/50
Shallow Anterior Chamber	0/43	1/44	0/43	0/43	0/41	0/43	0/47	0/50
Cataract	7/43	8/44	6/43	13/43	3/41	11/43	8/47	9/50
Vitreous Condensation	0/43	0/44	0/43	0/43	1/41	0/43	0/47	0/50
Vitreous Strands	0/43	0/44	0/43	1/43	0/41	0/43	0/47	0/50
Retinal Vascular Attenuation	0/43	0/44	0/43	0/43	0/41	0/43	1/47	1/50
Orbital Mass	1/43	0/44	1/43	0/43	0/41	0/43	1/47	2/50
Bled - Orbital Sinus	20/43	21/44	23/43	22/43	23/41	20/43	23/47	24/50

APPENDIX XI  
PATHOLOGY NARRATIVE REPORT

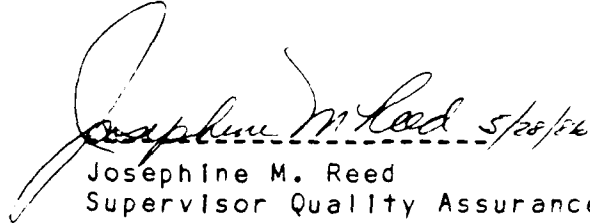
FINAL PATHOLOGY REPORT  
of Twenty-Four Month Chronic Toxicity-Carcinogenicity  
Study of Trinitrotoluene (TNT) In the Fischer 344 Rat

November 21, 1984

NIH Project Number L06116  
Study Number 9

QUALITY ASSURANCE STATEMENT  
L06116 SN9

Necropsy procedures were inspected on September 1, 1981, March 11, 1982 and January 26 and March 17, 1983. All gross necropsy data was audited between January 23 and March 8, 1984. Histopathology reports were audited on January 26 and December 6 and 7, 1982 and May 16 through July 10, 1984. Inspections and audits were performed by Julie McPhillips and Josephine M. Reed. The study was found to meet Life Sciences Quality Assurance criteria. Specimens and raw data generated during the study will be retained in the IITRI Life Sciences Archives as specified in standard operating procedures.

  
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Josephine M. Reed  
Supervisor Quality Assurance

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 \* Requests for Pathology Appendices I-IV (Volume III) should be directed to Health Effects Research Division, U.S. Army Medical Bioengineering Research and Development Laboratory, Fort Detrick, Frederick, Maryland, 21701-5012.

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 \* Requests for Pathology Appendices I-IV (Volume III) should be directed to Health Effects Research Division, U.S. Army Medical Bioengineering Research and Development Laboratory, Fort Detrick, Frederick, Maryland, 21701-5012.

FINAL PATHOLOGY REPORT OF TWENTY-FOUR MONTH CHRONIC  
TOXICITY/CARCINOGENICITY STUDY OF TRINITROTOLUENE (TNT)  
IN FISCHER 344 RATS

## I. INTRODUCTION

In accordance with the amended experimental protocol, gross and histopathologic examination were performed on organs and tissues of 750 (375 males and 375 females) adult Fischer 344 rats for IITRI Project L6116, Study Number 9.

The rats were divided into five groups, each containing 75 males and 75 females. Each group was fed either Trinitrotoluene (TNT) as a dietary admixture or a control diet until death or sacrifice. The treatment group number, treatment, number of rats per group, sex, and corresponding dose levels are shown below.

Treatment Group	Treatment	Number of Males	Number of Females	Dose level mg/kg/day
I	---	75	75	0.0
II	TNT	75	75	0.4
III	TNT	75	75	2.0
IV	TNT	75	75	10.0
V	TNT	75	75	50.0

Scheduled sacrifices were conducted at 6, 12, and 24 months. Ten rats per dose level, per sex were sacrificed at 6 and 12 months. All surviving rats were sacrificed at 24 months. A pathology report was made for each of these intervals. These pathology reports constitute Appendix I, II, and III. Each report lists the number of rats examined that died spontaneously or were sacrificed as moribund (SDMS), along with those scheduled to be sacrificed at 6, 12, and 24 months.

## II. MATERIALS AND METHODS

### 1. Gross Pathology

The rats were anesthetized with carbon dioxide, exsanguinated from the abdominal aorta, and necropsied. The organs were examined and, with the exception of the eyes and testes, fixed in 10% neutral buffered formalin for a period of no less than 48 hours. The eyes were fixed in 3% glutaraldehyde solution and the testes in Bouin's solution. The lungs were fixed by intratracheal perfusion of formalin. The heart, liver, adrenals, spleen, kidneys, gonads, and brain were weighed before fixation. SDMS rats were also necropsied and the organs were fixed as described above, but the organs were not weighed.

## 2. Histopathology

The following tissues were collected at necropsy, processed for histology using standard technique, stained with hematoxylin-eosin, and examined with the light microscope. Those tissues marked with an asterisk in the list below were processed for microscopic examination only at the control and high dosage level (50.0 mg/kg/day). The brain, spinal cord, pituitary, spleen, kidneys, heart, liver, gonads, as well as all gross lesions were processed at all dose levels.

The following tissues were collected:

Adrenal*	Ovaries*
Brain (frontal, parietal, cerebellar)*	Pancreas*
Cecum*	Pituitary*
Colon*	Prostate*
Costochondral junction	Rectum*
Duodenum*	Salivary gland
Epididymes*	Seminal vesicles
Esophagus*	Sciatic nerve
Eyes* and optic nerve*	Skin/Mammary gland*
Heart*	Spleen*
Ileum*	Spinal cord (cervical, thoracic, lumbar)*
Jejunum*	Sternum with marrow*
Kidneys*	Stomach*
Larynx	Testes*
Liver*	Thymus
Lymph nodes:	Trachea*
Mandibular	Thyroids/parathyroids*
Mesenteric*	Uterus*
Muscle, skeletal	Bone marrow smear**
Nasal turbinates	and any other tissues
Tissue Masses*	with gross lesions*
Urinary bladder**	

-----  
\*\*Urinary bladder and bone marrow were examined for the female rats in all dose levels.

The grading system for lesions and the abbreviations used in the pathology tables are as follows.

Grade 1 = minimal severity  
Grade 2 = mild severity  
Grade 3 = moderate severity  
Grade 4 = marked severity  
N = Within Normal Limits  
M = Tissue Not Present  
- = Tissue Not Applicable  
P = Lesion Present, No Grade

### 3. Statistical Evaluations

Statistical evaluation of pathological lesions were performed using models for qualitative data. For the comparison of treated vs control animals, in terms of the presence or absence of a specific lesion, Fishers exact test was used for cases when the expected value of any cell was less than or equal to five. Otherwise, a chi-square analysis was performed.

### III. PATHOLOGY RESULTS

The gross summary tables and the histopathologist's report, including the histopathology incidence and summary tables for the 6 and 12 months interim sacrifices and the 24 month terminal sacrifice, are presented in Pathology Appendix I, II and III respectively. A summary of the pathology results follows.

#### 1. SIX MONTH INTERIM SACRIFICE

##### A. Gross Observations

A lesion of possible significance was observed in the kidneys of male and female rats in the TNT 50.0 mg/kg/day dose group. The kidneys had a brown/mottled brown appearance in 5/10 males and 3/10 females in that dose group.

##### B. Microscopic Observations

Treatment-related lesions were observed in the spleen of male and female rats in the TNT 10.0 and 50.0 mg/kg/day groups; and in the kidneys of male rats in the TNT 2.0, 10.0, 50.0 mg/kg/day groups and in female rats in the 10.0 and 50.0 mg/kg/day groups.

A dose-related increase in the incidence of extramedullary hematopoiesis was observed involving the spleen of 8/10 and 10/10 male rats in the TNT 10.0 and 50.0 mg/kg/day groups respectively, and in 7/10 female rats in the TNT 50.0 mg/kg/day group.

An increased pigment deposition was also observed in the spleen of 10/10 male rats in both the TNT 10.0 and 50.0 mg/kg/day groups, and in 7/10 and 10/10 females in the TNT 10.0 and 50.0 mg/kg/day groups respectively. These lesions were graded minimal to mild in severity.

Several significant changes were observed in the kidneys of both male and female rats. Cytoplasmic bodies accompanied by nuclear hypertrophy were observed involving the proximal convoluted tubules in the cortex of all the male rats in the TNT 2.0, 10.0, and 50.0 mg/kg/day groups. The severity of this change was dose-related. A yellowish-brown pigment was present in the proximal convoluted tubules of all the females in the TNT 10.0 and 50.0 mg/kg/day groups. Nuclear hypertrophy of the convoluted tubular epithelial cells also accompanied these changes. The relative severity of these changes were dose-related. A slight increase in the severity of chronic nephropathy was seen in 8/10 males in the TNT 50.0 mg/kg/day group.

The cause of death for the single female animals in the TNT 0.0 and 0.4 mg/kg/day group was not evident.

Based upon the findings at the 6 month interim sacrifice the maximum no-effect level of the TNT in the Fischer 344 rat appeared to be 0.4 mg/kg/day.

## 2. TWELVE MONTH INTERIM SACRIFICE

### A. Gross Observation

Treatment-related lesions were observed involving the spleen and kidneys of males in the TNT 50.0 mg/kg/day group. The spleen of 4/10 rats were enlarged, and 8/10 were dark red/dark in appearance. The kidneys of 4/10 rats were brown.

### B. Microscopic Observations

Treatment-related lesions were observed in the spleen of TNT 10.0 and 50.0 mg/kg/day groups, and kidneys of the 2.0, 10.0 and 50.0 mg/kg/day groups male and female rats.

Sinusoidal congestion, extramedullary hematopoiesis, and increased pigment were observed in the spleen of both sexes.

Sinusoidal congestion was present in the spleen of all male and female rats in the TNT 50.0 mg/kg/day group. Increased extramedullary hematopoiesis was present in 9/10 male and female rats in the TNT 50.0 mg/kg/day group. Also, increased hemosiderin pigment was present in the spleen of all the male rats in the TNT 10.0 and 50.0 mg/kg/day groups, and in 8/10 and 10/10 female rats in the TNT 10.0 and 50.0 mg/kg/day groups respectively. The lesions were graded minimal to mild in severity.

Renal lesions included: cytoplasmic inclusion bodies accompanied by nuclear hypertrophy in the epithelial cells proximal convoluted tubules of all the males in the TNT 2.0, 10.0, and 50.0 mg/kg/day groups; increased pigment in the proximal convoluted tubules of 9/10, 10/10 and 10/10 females in the TNT 2.0, 10.0 and 50.0 mg/kg/day groups respectively; nuclear hypertrophy in 8/10 females in the 2.0 mg/kg day group, and all the females in the TNT 10.0 and 50.0 mg/kg/day groups; and a slight increase in the relative severity of chronic nephropathy among males in the TNT 10.0 and 50.0 mg/kg/day groups.

The cause of death and morbidity among the rats during the 6-12 month test period was ascribed to naturally occurring urogenital or neoplastic disease.

### 3. TWENTY-FOUR MONTH TERMINAL SACRIFICE

#### A. Gross Observations

Treatment-related lesions were present involving: the liver of male rats in the TNT 50.0 mg/kg/day group, and female rats in the TNT 10.0 and 50.0 mg/kg/day groups; the kidneys of male rats in the TNT 10.0 and 50.0 mg/kg/day group; and the urinary bladder of female rats in the 50.0 mg/kg/day group.

Red areas, focal to multifocal in distribution were seen as a significant change in the liver of male rats in the TNT 50.0 mg/kg/day group. The incidence of this lesion was:

Group	I	II	III	IV	V
	4/54	13/54	4/54	11/55	26/55
	(7%)	(24%)	(7%)	(20%)	(47%)

Tan area on the liver of female rats was significant in the TNT 10.0 and 50.0 mg/kg/day groups. The incidence of this lesion was:

Group	I	II	III	IV	V
	20/54	18/54	18/55	34/55	43/55
	(37%)	(33%)	(33%)	(62%)	(78%)

An increased number of pitted/granular kidneys were observed in the male rats in the TNT 10.0 and 50.0 mg/kg/day groups. The incidence of the lesion was:

Group	I	II	III	IV	V
	14/54	8/54	12/54	18/55	32/55
	(26%)	(15%)	(22%)	(33%)	(58%)

Cystic kidneys in male rats were also observed as being significant in the TNT 10.0 and 50.0 mg/kg/day groups. The incidence was:

Group	I	II	III	IV	V
	1/54	1/54	2/54	6/55	15/55
	(2%)	(2%)	(4%)	(11%)	(27%)

Masses were observed in the urinary bladder of 6/55 females in the TNT 50.0 mg/kg/day group. All these rats were part of the schedule sacrifice.

Gross lesions which appeared quite often in all groups regardless of treatment received and sex; were enlarged spleens, brown/mottled brown kidneys, and subcutaneous masses. Testicular lesions consisting primarily of interstitial masses were seen in male rats at all dose levels.

#### B. Microscopic Observations

Treatment-related lesions were present in the liver of males, urinary bladder and bone marrow of females, and the spleen and kidneys of both sexes. The increased incidence and/or relative severity of the lesions were dose-related in the 10.0 and 50.0 mg/kg/day males, and the 2.0, 10.0, and 50.0 mg/kg/day females.

A dose-related increased incidence of hepatocellular hyperplasia associated with peliosis and cystic degeneration was observed in the liver of 23/54 and 34/55 male rats in the TNT 10.0 and 50.0 mg/kg/day groups respectively.

Lesions in the urinary bladder of female rats included hyperplasia of the mucosal epithelium (2/55 in the 10.0 and 12/55 50.0 mg/kg/day groups), papillomas (1/55 in 10.0 and 5/55 in the 50.0 mg/kg/day groups), and carcinomas (12/55 in the 50.0 mg/kg/day group).

A significant increase in incidence and severity of myelofibrosis of the sternal bone marrow was present in 17/54 rats in the TNT 50.0 mg/kg/day group. Bone marrow specimens from the TNT 0.4, 2.0, and 10.0 mg/kg/day groups have not been examined at this time.

TABLE I

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) in the Fischer 344 Rat

Incidence of Principal Gross Observations in Rats at the  
Scheduled 24-Month (Terminal) Sacrifice

<u>Observation/Lesion</u>	<u>INI DOSE (mg/kg/day)</u>				
	<u>0.0</u>	<u>0.4</u>	<u>2.0</u>	<u>10.0</u>	<u>50.0</u>
	<u>MALES</u>				
Liver (red areas; focal to multifocal)	4/54	13/54	4/54	11/53	26/55
Kidneys (pitted/ granular)	14/54	8/54	12/34	18/55	32/55
Kidneys (cystic)	1/54	1/54	2/54	6/55	15/55
	<u>FEMALES</u>				
Liver (tan areas)	20/54	18/54	18/55	34/55	43/55
Urinary bladder (masses)	0/54	0/54	0/55	0/55	6/55

Table II

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) In the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions  
for the 12-24 Month MS/SD and Terminal Sacrificed Males

	DOSE (mg/kg/day)				
	0.0	0.4	2.0	10.0	50.0
HEPATOCELLULAR HYPERPLASIA					
PRESENT	9	9	7	23**	34**
ABSENT	45	45	47	31	21
SPLEEN = INCREASED PIGMENT					
PRESENT	4	7	8	18**	47**
ABSENT	50	47	46	36	8
SPLEEN = INCREASED EXTRAMEDULLARY HEMATOPOIESIS					
PRESENT	3	4	9	8	24**
ABSENT	51	50	45	46	31
SPLEEN = CONGESTION					
PRESENT	10	14	18	14	29**
ABSENT	44	40	36	40	26
SPLEEN = MONOCYTIC LEUKEMIA					
PRESENT	33	26	19**	33	3**
ABSENT	21	28	35	21	52
KIDNEYS = INCREASED RENAL PIGMENT					
PRESENT	22	20	15	47**	50**
ABSENT	32	34	39	7	5
KIDNEYS = INFLAMMATION, LYMPHOCYTIC					
PRESENT	44	35	46	50	54**
ABSENT	9	19	8	4	0

\* P < .05

\*\* P < .01

Table III

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) In the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions for the  
12-24 Month MS/SD and Terminal Sacrificed Females

	DOSE (mg/kg/day)				
	0.0	0.4	2.0	10.0	50.0
<u>SPLEEN = INCREASED PIGMENT</u>					
PRESENT	9	3	7	34**	38**
ABSENT	45	51	48	21	17
<u>SPLEEN = INCREASED EXTRAMEDULLARY HEMATOPOIESIS</u>					
PRESENT	17	9	7	31*	41**
ABSENT	37	45	48	24	14
<u>SPLEEN = CONGESTION</u>					
PRESENT	8	8	18*	35**	38**
ABSENT	46	46	37	20	17
<u>SPLEEN = MONOCYTTIC LEUKEMIA</u>					
PRESENT	13	21	19	10	1**
ABSENT	41	33	36	45	54
<u>KIDNEYS = INCREASED RENAL PIGMENT</u>					
PRESENT	35	41	53**	51**	55**
ABSENT	19	13	2	4	0
<u>KIDNEYS = INFLAMMATION, LYMPHOCYTIC</u>					
PRESENT	17	16	17	33**	33*
ABSENT	37	38	38	22	22
<u>KIDNEYS = HYPERPLASIA OF RENAL PELVIS</u>					
PRESENT	0	0	0	0	7*
ABSENT	54	54	55	55	48
<u>URINARY BLADDER = HYPERPLASIA</u>					
PRESENT	1	0	0	2	12**
ABSENT	53	54	55	53	43

\* P < .05

\*\* P < .01

Table III (continued)

Twenty-Four Month Chronic Toxicity/Carcinogenicity Study of  
Trinitrotoluene (TNT) in the Fischer 344 Rat

Statistical Evaluation of Histopathological Lesions  
for the 12-24 Month MS/SD and Terminal Sacrificed Females

	DOSE (mg/kg/day)				
	0.0	0.4	2.0	10.0	50.0
<u>URINARY BLADDER = PAPILOMA</u>					
PRESENT	0	0	0	1	5*
ABSENT	54	54	55	54	50
<u>URINARY BLADDER = CARCINOMA</u>					
PRESENT	0	0	0	0	12**
ABSENT	54	54	55	55	43
<u>URINARY BLADDER = PAPILOMA AND CARCINOMA (COMBINED)</u>					
PRESENT	0	0	0	1	17**
ABSENT	54	54	55	54	38
<u>BONE MARROW = FIBROSIS</u>					
PRESENT	5	6	13*	12	17**
ABSENT	49	47	42	42	37

\* P < .05

\*\* P < .01

There was an increase of yellow-brown pigment in the spleen of 18/54 and 47/54 males in the TNT 10.0 and 50.0 mg/kg/day groups respectively, and in 34/55 and 38/55 females in the TNT 10.0 and 50.0 mg/kg/day groups respectively. Also a dose-related increase in the incidence of extramedullary hematopoiesis was seen in the spleen of 24/55 males in the TNT 50.0 mg/kg/day group, and in 31/55 and 41/55 females in the TNT 10.0 and 50.0 mg/kg/day groups respectively. Splenic sinusoidal congestion was also seen in 29/55 males in the TNT 50.0 mg/kg/day group, and in 18/55, 35/55, and 38/55 females in the TNT 2.0, 10.0, and 50.0 mg/kg/day groups respectively.

A dose-related increased incidence and severity of cytoplasmic pigment was observed in the epithelial cells of cortical tubules in 47/54 and 50/55 male rats in the TNT 10.0 and 50.0 mg/kg/day groups respectively; and in 53/55, 51/55, and 55/55 females in the 2.0, 10.0, and 50.0 mg/kg/day groups respectively.

In addition to the pigmentary changes in the kidney, there was also a dose-related increase in the relative severity of chronic nephropathy and inflammation in the 50.0 mg/kg/day males and females. Hyperplastic changes were also seen in the renal pelvis of 7/55 females in the TNT 50.0 mg/kg/day group. All seven rats were among the schedule sacrifice animals.

A detailed summary of the cause of morbidity and death is present in Pathology Appendix III. Most death appeared to be caused by neoplastic or urogenital disease.

#### IV. DISCUSSION

The brown/mottled brown kidneys observed on gross examination in male rats in the TNT 50.0 mg/kg/day group at the 6 and 12 month sacrifice intervals; and the enlarged, red spleens observed in males in the same dose group at the 12 month sacrifice interval, were considered to be treatment-related. However, these lesions were observed in many rats of both sex at all dose levels and in the controls at the 24 month terminal sacrifice interval. The brown kidneys seen in males at the 6 and 12 month sacrifice intervals were probably due to the accumulation of protein reabsorption droplets-crystalline bodies (cytoplasmic bodies) in the tubular epithelial cells. These bodies regressed and were not present at the 24 month terminal sacrifice (see below and Pathology Appendix I-III). The enlarged spleens seen at the 12 month sacrifice interval were probably caused by sinusoidal congestion and hemosiderosis, while at the 24 month sacrifice interval this lesion probably resulted from the proliferation of malignant mononuclear cell associated with monocytic leukemia, as well as from sinusoidal congestion and hemosiderosis.

Histologically, treatment-related lesions were observed involving the spleen and kidney throughout the study (test months 0-24). An increase of yellowish-brown pigment resembling hemosiderin was observed in the spleen of 10.0 and 50.0 mg/kg/day males and females. This dose-related lesion was graded minimal to mild in severity at the 6 and 12 month sacrifice interval, and minimal to moderate at the 24 month terminal sacrifice interval. The more severe lesion was seen at the 50.0 mg/kg/day dose level.

Increased extramedullary hematopoiesis was another change observed in the spleen throughout the study. This lesion was present in male and female rats in the TNT 50.0 mg/kg/day group at the 6, 12 and 24 month sacrifice intervals, and in the 10.0 mg/kg/day females at the 24 month terminal sacrifice interval. There was a significant increase in extramedullary hematopoiesis in the spleen of male rats in the 10.0 mg/kg/day group at the 6 month sacrifice interval. However, this change did not appear to be significant for that dose level at any other time during the study. The severity of this lesion remained the same throughout the study (minimal to mild).

Sinusoidal congestion was another lesion observed in the spleen at the 12 and 24 month sacrifice intervals. There was a dose-related increase in incidence and relative severity of this lesion in the 50.0 mg/kg/day males and females at the 12 month sacrifice interval; and in 50.0 mg/kg/day males, and in 2.0, 10.0 and 50.0 mg/kg/day females at the 24 month terminal sacrifice interval. This lesion diagnosed only in the terminally sacrificed rats.

A spontaneous disease, mononuclear cell leukemia, was observed in the spleen of male and female rats primarily during test months 12-24. The proliferation of the neoplastic mononuclear cells in the spleen greatly contributed to the enlarged spleen observed grossly in rats during this period.

Treatment-related lesions were also seen in the kidney throughout the study. Nuclear hypertrophy of the epithelial cell of the proximal convoluted tubules, accompanied by the presence of cytoplasmic bodies in the males and yellowish-brown cytoplasmic pigment in the females, was observed in: the 2.0, 10.0 and 50.0 mg/kg/day males at the 6 and 12 month sacrifice intervals, in the 50.0 mg/kg/day females at the 6 month sacrifice interval, and in the 2.0, 10.0 50.0 mg/kg/day females at the 12 month sacrifice interval. However, by the 24 month terminal sacrifice interval, there was a regression of the nuclear change in the proximal convoluted tubules of both sexes, and of the cytoplasmic bodies in the tubules of the males. Also, during this same period, there was a dose-related increase in granular pigment within the cytoplasm of proximal convoluted tubular epithelial cells in 10.0 and 50.0 mg/kg/day males which was not

observed previously. The appearance of this pigment in male rats probably represents the resolution phase of the cytoplasmic protein reabsorption droplets and the crystalline material previously observed. (see Pathology Appendix III, Volume 1).

A dose-related increase in the relative severity of chronic nephropathy in the kidneys of male rats was observed throughout the study. This lesion probably gave the kidneys the granular/pitted, cystic appearance that was seen on gross examination especially in the the 50.0 mg/kg/day males at the 24 month terminal sacrifice interval.

Treatment-related hyperplastic, preneoplastic, and neoplastic changes were observed in the urinary bladder of females in the TNT 10.0 and 50.0 mg/kg/day groups. These lesions were confined to the mucosal epithelium and consisted of hyperplasia, papillomas, and carcinomas.

Hepatocellular hyperplasia associated with peliosis, or cystic degeneration were observed in the liver of males in the TNT 10.0 and 50.0 mg/kg/day groups at the 24 month terminal sacrifice interval. These are naturally occurring lesions which were exacerbated by feeding TNT. The lesions were associated either with sinusoidal dilatation, or large blood filled spaces which imparted the red areas seen grossly on the liver of these rats.

#### V. SUMMARY AND CONCLUSIONS

Treatment-related lesions were observed in the kidney and spleen throughout the study in 10.0 and 50.0 mg/kg/day males and in 2.0, 10.0 and 50.0 mg/kg/day females. Additional lesions were present in the urinary bladder of 10.0 and 50.0 mg/kg/day females, sternal bone marrow of the 2.0, 10.0 and 50.0 mg/kg/day females, and in the liver of 10.0 and 50.0 mg/kg/day males at the 24 month terminal sacrifice interval.

Based on the present data, the no-effect level of TNT after 24 months of dietary administration was 2.0 mg/kg/day for males and appeared to be 0.4 mg/kg/day for females. A no-effect level for sternal myelofibrosis in females was 0.4 mg/kg/day. The no-effect levels observed at this interval of the study were similar to those established at the 6 and 12 month sacrifice intervals.

The toxic effects of TNT for the Fischer 344 rat were observed in the liver, kidneys, and spleen of males and in the spleen, kidneys, urinary bladder and bone marrow of females. The lesions observed were naturally occurring in this species and were considered to be exacerbated by TNT administration except cytoplasmic pigments observed in the kidneys of both sexes and

the lesions in the renal pelvis, urinary bladder and bone marrow of the females.

The pathologic lesions delimiting the highest no-effect levels for this study as a result of occurring at a statistically significant greater incidence than in the controls were: pigmentary changes in the kidneys splenic congestion and bone marrow fibrosis in the females at 2.0 mg/kg/day and hepatocellular hyperplasia, increased splenic pigment and increased renal pigment at 10.0 mg/kg/day in the male.

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